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# The Meliolineae II.

By F. L. Stevens.

**Meliola** Fries, Systema orb. veg. 111. 1825. Emend. Bornet, Ann. Sci. Nat. Bot. Sér. 3, **16**: 257. 1851.

Mycelium superficial, hyphopodiate, mycelium setose, perithecium with or without setae, but with no larviform appendages. Spores dark, 2, 3 or 4-septate.

*M. amphitricha* has long been regarded as the type of the genus, but for what appear to me to be sufficient reasons Arnaud (2) regards the designation of this as the type as impossible and he suggests as a pseudotype *M. hibisci*. This selection also appears to me to be unwise for much the same reasons that led to discarding *M. amphitricha*, i. e., *M. hibisci* has not been adequately described, no type is known nor is there known to me any member of the Meliolineae, with mycelial setae, on Hibiscus or indeed on any of the Malvaceae.

Though we cannot point to any properly designated or described type for the genus there appears to be no doubt of its characters as conforming to the above diagnosis.

Key to Groups of the Genus Meliola.

Spores 2—3-septate, 3-septate, or 3—4-septate, ½--- or 2--- or ⅔--- . . group 1, Nos. 1—16, p. 166.
Spores 4-septate
  Perithecia setose, 34-- or 3½-- . . group 2, Nos. 17—37, p. 170.
  Perithecia not setose
    Ms. branched, 314- or 31⅔- . . . group 3, Nos. 38—76, p. 174.
    Ms. dentate, 313- . . . . . group 4, Nos. 77—135, p. 185.
    Ms. simple or dentate, 31⅔- or 31⅓- or 31½- . . . . . group 5, Nos. 136—182, p. 200.
    Ms. uncinate, 312- or 31½- . . . group 6, Nos. 183—202, p. 212.
    Ms. not as above
      Ch. alternate or opposite, 3113 . group 7, Nos. 203—236, p. 218.
      Ch. opposite, 3112 . . . . . group 8, Nos. 237—272, p. 224.
      Ch. alternate
        Setae obtuse, 3111 . . . . group 9, Nos. 273—391, p. 233.
        Setae obtuse or acute, 3111 . group 10, Nos. 392—408, p. 263.
        Setae acute, 3111 . . . . . group 11, Nos. 409—499, p. 266.

Conspectus of Group 1, Meliola.

| | | |
|---|---|---|
| Spores 2—3-septate | | |
| ½111. 53-3, hc. usually tuberculate or lobed, on Taxaceae | *peltata* | No. 1. |
| Spores 3-septate | | |
| Ms. uncinate | | |
| 2121. 6342, s. 300—400 μ, obtuse, hc. globose, on unknown host | *wainioi* | No. 2. |
| Ms. not uncinate, simple | | |
| Ch. opposite or alternate | | |
| 2113. 3222, s. 250—320 μ, obtuse, hc. cylindric, on Euphorbiaceae | *insignis* | No. 3. |
| Ch. opposite | | |
| 2112. 5324, s. 500—1500 μ, hc. clavate, on Flacourtiaceae | *tonduzi* | No. 4. |
| Ch. alternate | | |
| S. obtuse | | |
| 2111. 6332, s. 300—460 μ, hc. globose, on Icacinaceae | *villaresiae* | No. 5. |
| 2111. 5232, s. 250—320 μ, hc. lobed, pedicil 24—28 μ, on Icacinaceae | *campylotricha* | No. 6. |
| 2111. 6232, s. 400—500 μ, hc. globose, on Cornaceae | *nidulans* | No. 7. |
| 2111. 5232, s. 300—400 μ, hc. cylindric, uncinate or ovate, irregularly lobed, on Celastraceae | *evansii* | No. 8. |
| 2111. 533-, hc. globose, lobed and irregular, on Ericaceae | *niessleana* | No. 9. |
| S. acute | | |
| 2111. 4232, s. 200—360 μ, hc. irregular, on Cornaceae | *ganglifera* | No. 10. |
| 2111. 4231, colony large, s. 200—300 μ, hc. globose, on Nyctaginaceae | *pulchella* | No. 11. |
| 2111. 4221, s. 200—250 μ, hc. irregular and lobed, on Staphyleaceae | *oligomera* | No. 12. |
| 2111. 4233, s. 150—600 μ, hc. lobed, on unknown host | *guaranitica* | No. 13. |
| 2111. 6341, s. 200—300 μ, hc. globose or lobed, on Proteaceae | *lanosa* | No. 14. |
| Ch. and setae not described | | |
| 21--. 632-, on Aquifoliaceae | *ilicis* | No. 15. |
| Spores 3—4-septate | | |
| ¾111. 4231, s. 100—150 μ, obtuse, ch. ovoid, on Malpighiaceae | *stuhlmanniana* | No. 16. |

No. 1. **Meliola peltata** Doidge, Trans, Roy. Soc. So. Africa **5**: 727. 1917.

On Taxaceae: Podocarpus.

Type locality: Natal, South Africa, Pienaar *2436*.

Citations: 45*, 51, 55*, 18.

Specimens: Doidge *11551*, *2436* (type).

The spores are given in the original description as "3-septate, occasionally 2-septate" this being one of the very rare occurences in which there is variation in spore septation in the Meliolineae.

This species is quite distinct from all others and except for its hyphopodia the thallus would be regarded as of the Microthyriaceae.

No. 2. **Meliola wainioi** Patouillard, Jour. Bot. (Paris) 4: 200. 1890.

On unknown host.

Type locality: Brazil, Wainio *1121*.

Citation: 83*.

No. 3. **Meliola insignis** Gaillard, Le gen. Mel. 44. 1892.

On Euphorbiaceae: Mallotus 198, 4.

Type locality: Sumatra, Forbes *3048*.

Distribution: Sumatra 5, 83; Philippines 198, 4.

Citations: 83*, 116.

Specimen: Phil. Bur. Sci. *905*.

No. 4. **Meliola tonduzi** Spegazzini, Bol. Acad. Nac. Cien., Cordoba, **23**: 190, No. 452. 1919.

On Flacourtiaceae: Xylosma.

Type locality: Costa Rica.

No. 5. **Meliola villaresiae** Hennings, Hedw. **36**: 218. 1907.

On Icacinaceae: Villaresia.

Type locality: Brazil *22713*, Glaziou.

Specimens: the type *22712*.

Colonies densely black, velvety with numerous setae; hyphopodia alternate, oval, large, 22 μ; setae 300—460 μ long, 11 μ thick, dark, crooked, obtuse. Perithecium —230 μ in diameter, spores 3-septate.

No. 6. **Meliola campylotricha** Sydow, H., Ann. Mycol. **22**: 420, 1924.

On Icacinaceae: Apodytes.

Type locality: So. Africa, van der Byl *1515*.

Citation: 18b.

No. 7. **Meliola nidulans** (Schweinitz) Cooke, Grev. **11**: 37. 1882.

*Sphaeria nidulans* Schweinitz, Syn. Fungi Car.: 45, no. 185. 1882.

*Chaetosphaeria nidulans* (Schweinitz) Rehm, Ascom. *287*.

*Meliola ellisii* Roum. Fung. Exsic. *896* and Rev. Mycol. **2**: 200. 1880.

*Meliola nidulans* (Schweinitz) Cooke var. *germanica* Rehm in Krieger, Fung. Sax., *1611*.

*Meliola sudetica* Niessl in herb.

On Cornaceae: Cornus 230, 83, 174. On Ericaceae: Vaccinium 83, 64, 150, 151, 121, 340, 341, 207, 61.

Type locality: Georgia, U. S. A. on Cornus. Fig. 1.

Distribution: So. U. S. A. 230, 83, 64, 174, 207, 61; Germany, France, Sweden 121, 151.

Citations: 73, 83*, 151*, 280, 153, 149, 2*.

Specimens: Ellis & Everhart, N. Amer. Fungi *192*; Rab., Wint. & Pazsch., Fungi europ. *3544*, *3339*; Rav., Fungi Car. I, *50*; Ellis & Everhart, Fungi Col. *24*; Roum., Fungi Sel. Gall. Exs. *896* sub *Meliola ellisii*; Jaap, Fungi Sel. Exs. *186*; Syd. Myc. ger. *377*; Ellis & Everhart Fungi Col. *1546*.

The variety *M. nidulans* var. *germanica* was set up by Rehm on account of constriction of the spores, but this was superfluous as was remarked by Weese (340), since the type also shows spores somewhat constricted. Although Weese holds that *M. nidulans* and *M. niessleana* should be considered as co-specific this does not seem to be borne out by examination of various specimens since *M. nidulans* is of dense crustose colony with small regular hyphopodia with a subglobose headcell while *M. niessleana* has a much more loose colony and the hyphopodia are large and irregular.

No. 8. **Meliola evansii** Doidge, Trans, Roy. Soc. So. Africa **8**: 112. 1920.

On Celastraceae: Celastrus 48, Mystroxylon 48, Elaeodendron. On Flacourtiaceae: Scolopia 55.

Type locality: Natal, South Africa.

Citations: 48*, 55*.

Specimens: Union, So. Africa *9067*, type.

No. 9. **Meliola niessleana** Winter, Hedw. **24**: 260. 1885.

On Ericaceae: Rhododendron 346, 83, 150, Vaccinium 232.

Type locality: Germany, on Rhododendron.

Distribution: Germany 346, 150, 83; Costa Rica 260.

Citations: 83*, 232*, 2*, 153, 180.

Specimens: Rehm, Ascom. *898*.

New records: On Cavendishia. Costa Rica: Cartago, June 23 1923, *54*, *66*. The spores in this specimen are somewhat larger than hitherto reported, viz. 60—68 ⩽ 25 μ, but agree otherwise with previous specimens. Its formula is 2111. 6343. *M. pulchella* Speg., as is shown by examination of the type specimen, differs from the specimen of *M. nidulans* cited above both in type of colony and in shape of head cells. It differs also essentially from my specimen in the same respects.

No. 10. **Meliola ganglifera** Kalchbrenner & Cooke, Grev. **9**: 34. 1880.

On Cornaceae: Curtisia 127, 83, 51, 313, 45, 18. On Hippocrateaceae: Hippocratea 83, 313.

Type locality: South Africa, on Curtisia.

Distribution: South Africa 127, 83, 51, 45, 313, 18, 18b, 180; Paraguay 347, 83; Ceylon, India 83, 313; Brazil 312, 313.

Citations: 127*, 83*, 45*.

Specimens: Doidge *9560* (compared with type), *9457*, Kew *1953*.

No. 11. **Meliola pulchella** Spegazzini, Bol. Acad. Nac. Cien., Cordoba, **11**: no. 227. 1889.

On Myrtaceae 242. On Nyctaginaceae; Pisonia 251. On Ericaceae: Gaylussacia 83, 166.

Type locality: Apiahy, Brazil *1699*, on Myrtaceae.

Distribution: Brazil 242, 166, 83; Paraguay 251.

Citations: 263*, 83*.

Specimen: the type.

No. 12. **Meliola oligomera** Sydow, H. & P., Annal. Mycol. **15**: 190. 1917.

*Meliola reinkingii* Sydow, H. & P., Annal. Mycol. **18**: 98. 1920.

On Staphyleaceae: Turpinia. On Hippocrateaceae: Hippocratea.

Type locality: Luzon, Philippines, Bur. Sc. *23882*, Ramos, on Turpinia.

Specimen: Phil. Bur. Sci. *23882*.

The descriptions of this and *M. reinkingii* agree almost absolutely and their identity is accepted by Sydow.

No. 13. **Meliola guaranitica** Spegazzini, An. Soc. Cient. Argentine **21**: no. 177, p. 71. 1883.

On Rutaceae. On Sapindaceae: 251. On Hippocrateaceae: Salacia 255, 254a.

Type locality: Guarapi; Brazil *3781*, on unknown host.

Distribution: Brazil 236, 210, 241, 243, 207; Argentine 255; Paraguay 243, 254a.

Citation: 263*.

Specimens: the type, Roum. Fungi Sel. Gall. Exs. *4130*.

Though various authors (83) have held that this and *Meliola ganglifera* are identical, Spegazzini (255), the author of both species points out several essential differences.

No. 14. **Meliola lanosa** Patouillard, Rev. Mycol. **10**: 136. 1888.

*Meliola funerea* McAlpine, Proc. Linn. Soc. N. So. Wales **21**: 104. 1896.

*Meliola macrocarpa* Montagne, in herb. mus. Paris, pro parte.

*Meliola negeriana* Sydow, H. & P., Annal. Mycol. **2**: 170. 1904.

On Proteaceae: Lomatia 154, Grevillea 136, Telopea.

Distribution: Chile 154, 83, 279; Argentine 255; South Africa; New South Wales 136.

Citations: 154*, 83*, 136*, 133*.

Specimens: the type, the type of *M. funerea*.

Examination of the type of *M. funerea* shows numerous setae, black, obtuse, coarse, 9—11 μ, —540 μ, mycelium dense, very crooked. Perithecium —200 μ, ch. very irregular, lobed.

No. 15. **Meliola ilicis** Hennings, Bot. Jahrb. (Engler) **17**: 523. 1893.

On Aquifoliaceae: Ilex.

Type locality: Brazil, Regnell *835*.

This fungus is provisionally placed here though with no description of the setae or hyphopodia its position is uncertain.

No. 16. **Meliola stuhlmanniana** Hennings, Bot. Jahrb. (Engler) **34**: 45. 1904.
On Malpighiaceae: Acridocarpus 99, Byrsonima 331a.
Type locality: Africa.
Distribution: Africa 99; Santo Domingo 331a.

Conspectus of Group 2, Meliola.

Ms. branched
- 3441. 5321, ps. simple, 450 μ, hc. oval, ms. 180—220 μ, forked, pr. br. 70—100 μ, divergent, on Araliaceae . . . . . *heteroseta* No. 17.
- 3441. 4224, ps. 250—2000 μ long, on Apocynaceae . . . . . *willoughbyae* No. 18.

Ms. dentate
- 3431. 5324, ms. 1000—1700 μ, 2-several denticulate, ps. 250—500 μ, furcate, on Magnoliaceae . . . . . *diplochaeta* No. 19.

Ms. entire or dentate
- Ch. opposite or alternate
  - 34⅓3. 3222, ms. 400 μ, acute or bi, trifurcate, ps. same, on unknown host . . . . . *mattogrossensis* No. 20.
- Ch. alternate
  - 34⅔1. 3121, ms. & ps. 150 μ, rough or short-bifid, on Piperaceae . . . . . *contorta* No. 21.

Ms. entire
- Ch. alternate or opposite
  - 3413. 4222, ms. & ps. 220—400 μ, acute, on Sapindaceae . . . . . *acrotricha* No. 22.
- Ch. opposite
  - 3412. 4222, ms. 300—350 μ, obtuse, ps. 200—350 μ, obtuse, on Malpighiaceae . . . *byrsonimina* No. 23.
  - 3412. 5332, ms. 260—420 μ, ps. 250 μ, on Araliaceae . . . . . *pectinata* No. 24.
  - 3412. 4221, ms. & ps. 150—260 μ, obtuse, on Campanulaceae . . . . . *lobeliae* No. 25.
- Ch. alternate
  - Setae obtuse
    - 3411. 4133, hc. oblong or irregular, ps. & ms. 580 μ, on Ericaceae . . . . . *vaccinii* No. 26.
    - 3411. 3222, hc. ovate, ps. & ms. 300—400 μ, on Dipterocarpaceae . . . . . *hopeae* No. 27.
    - 3411. 5123, hc. ovate or truncate, ms. 800 μ, ps. 100 μ, twisted, on Rubiaceae . . . *mayaguesiana* No. 28.

Setae acute

3411. 2120, col. 1—3 mm., arachnoid, hc. ovate, truncate or sublobed, ms. —200 μ, acute, ps. —100 μ, obtuse, on Malvaceae . . . *sidae* No. 29.

3411. 5233, hc. cylindrical, narrow, lobed, ms. 500—1000 μ, ps. 100—120 μ, spores not apiculate, on Cyperaceae . . . . *argentina* No. 30.

3411. 4223, hc. cylindrical, entire or lobed, bent, ms. 400—600 μ, ps. 130 μ, spores subapiculate, on Cyperaceae . . . . . *circinans* No. 31.

3411. 5334, hc. oblong-irregular, ms. 900—1200 μ, ps. 100—180 μ, on Rutaceae . *juddiana* No. 32.

3411. 5223, hc. angular or lobed, ms. 770 μ, ps. 150 μ, on Apocynaceae . . . . . *moerenhoutiana* No. 33.

3411. 3223, hc. irregular-pyriform, ms. 650 μ, ps. 50—90 μ, on Rubiaceae . . . . . *kaduae* No. 34.

3411. 5323, hc. long, ms. 300—650 μ, ps. 200—300 μ, on unknown host . . . . . *pennata* No. 35.

Setae apices not described

3411. 4221, on Moraceae . . . . . *microtricha* No. 36.

3411. 3211, s. 200—270 μ, ch. globose, on Myrtaceae . . . . . *horrida* No. 37.

No. 17. **Meliola heteroseta** v. Höhnel, Sitzber. K. Akad. Wiss. Wien (Vienna) Math. Naturw. Kl. **118**: 1169. 1909.

On Araliaceae: Paratropia.

Type locality: Java.

Specimens: the type, Phil. Bur. Sci. *28333*.

No. 18. **Meliola willoughbyae** Zimmermann, Bul. Inst. Bot. Buitenzorg, no. **10**: 23. 1901.

On Apocynaceae: Willoughbya.

Type locality: Buitenzorg, Java.

The setae as described, to 2 mm. long, are very remarkable.

No. 19. **Meliola diplochaeta** Sydow, H. & P., Leaf. Phil. Bot. **5**: 1536. 1912.

On Magnoliaceae: Talauma 291, 4.

Type locality: Palawan, Philippines 12790.

Specimen: Phil. Bur. Sci. *28333*.

Citation: 353.

No. 20. **Meliola mattogrossensis** Starbäck, Ark. Bot. **2**: no. 5: 10. 1904.

On unknown host.

Type locality: Matto Grosso, Brazil no. B. *524*.

No. 21. **Meliola contorta** Stevens, III. Biol. Mono. **2**: 32. 1916.

On Piperaceae: Piper.

Type locality: Porto Rico, Stevens *8225*.

Citations: 261*, 230a.

No. 22. **Meliola acrotricha** Sydow, H., Leaf. Philippine Bot. **9**: 3113. 1925.
On Sapindaceae: Trigonachras.
Type locality: Sorsogon, Philippines *16426*.
Specimen: the type.

No. 23. **Meliola byrsonimina** Stevens & Tehon, Mycol. **18**: 10. 1926.
On Malpighiaceae: Byrsonima.
Type locality: British Guiana, Stevens *106*.
Citation: 266*.

No. 24. **Meliola pectinata** v. Höhnel, Sitzber. K. Akad. Wiss. Wien (Vienna) Math. Naturw. Kl. **118**: 1170. 1909.
On Araliaceae: Paratropia.
Type locality: Java.

No. 25. **Meliola lobeliae** Stevens, Bish. Mus. Bul. **19**: 29. 1925.
On Campanulaceae: Clermontia.
Type locality: Mauai, Hawaiian Islands, Stevens *1154*.
Citations: 264*, 215.

No. 26. **Meliola vaccinii** Stevens, Bish. Mus. Bul. **19**: 30. 1925.
On Ericaceae: Vaccinium.
Type locality: Hawaii, Stevens *739*.
Citation: 264*.

No. 27. **Meliola hopeae** Yates, Philippine Jour. Sci., C. Bot. **13**: 369. 1918.
On Dipterocarpaceae: Hopea.
Type locality: Luzon, Philippines, Bur. Sci. *25774* Yates.
Specimen: the type.

No. 28. **Meliola mayaguesiana** Stevens, Ill. Biol. Mono. **2**: 32. 1916.
On Rubiaceae: Palicourea.
Type locality: Porto Rico, Stevens *7157*.
Citations: 261*, 29, 230a.

New records: On Psychotria sp. Ecuador, Terecita, Oct. 29, 1924. *66*. This specimen agrees closely with the Porto Rican type material, especially in the crooked mycelium and the setae of two types. On Palicourea guianensis. British Guiana, Coverden, Aug. 8, 1922. *812*. On Palicourea sp. British Guiana, Kartabo, July 22, 1922, *570*. This material agrees very closely with the type specimens from Porto Rico.

No. 29. **Meliola sidae** Rehm, Philippine Jour. Sci., C. Bot. **8**: 391. 1913.
On Malvaceae: Sida.
Type locality: Luzon, Philippines, Baker *117*. Fig. 2.
Citations: 199, 4, 5, 301.
Specimens: Syd. Fung. Exot. Exs. *381*. Baker, Fungi Mal. *255*. Phil. Bur. Sci. *24066*.

No. 30. **Meliola argentina** Spegazzini, An. Soc. Cient. Argentina **9**: 177, no. 72. 1880.
*Meliola cyperi* Patouillard, in Gaillard, Le Gen. Mel. 70. 1892.

On Cyperaceae: 234, 83, Cyperus 253, 83, 261, Scleria 261, Mariscus 261, Cladium 261, Scirpus 255, Vincentia 264, Gahnia 264, Rhynchospora 264, Baumea 264.

Type locality: Argentine.

Citations: 83*, 215*, 235, 263*, 255, 230a.

Distribution: French Congo, Africa 83; Argentine 234, 83, 255; Porto Rico 253, 261; Hawaii 264.

Specimens: the type, Pat. Congo.

The really distinctive character of this fungus as described both by Patouillard and Spegazzini (255) rests in the setae of two kinds, mycelial 500—1000 μ long and the others from the lower portion of the perithecium and 100—120 μ long.

Though Spegazzini in his modesty and kindliness argues (255) that the accurate description of Patouillard should give the name *Meliola cyperi* precedence over Spegazzini's much earlier name based on a less accurate description, I cannot agree with this and therefore use Spegazzini's name.

No. 31. **Meliola circinans** Earle, Bul. N. Y. Bot. Gard. **3**: 304. 1905.

On Cyperaceae: Rhynchospora 58, 261, Cladium 254, Cyperus 9, Mariscus 261.

Type locality: Porto Rico, Heller *6384*.

Distribution: Porto Rico 261, 58; So. U. S. A. 58; Argentine 254.

Citations: 215, 117, 230a.

Specimen: Heller *6384* (type).

New records: On Lagenocarpus tremulus. British Guiana, Rockstone, July 16, 1922, *436;* Trinidad, Cumuti, Aug. 16, 1922, *907*.

These specimens differ from those described by Earle in having somewhat larger spores (57 ⩽ 18 μ), in hyphopodia, and in longer mycelial setae (often 751 μ). The subapiculate spores, however, are clearly distinctive. Specimen *907* is overgrown with Helminthosporium sp.

No. 32. **Meliola juddiana** Stevens, Bish. Mus. Bul. **19**: 32. 1925.

On Rutaceae: Pelea.

Type locality: Hawaii, Stevens *986*.

Citations: 264*, 215*.

No. 33. **Meliola moerenhoutiana** Montagne in Sagra Hist., Cuba, p. 327. 1842. *Meliola alyxiae* Stevens, Bish. Mus. Bul. **19**: 30. 1925.

On Apocynaceae: Alyxia stellata, 142. On Ericaceae: Vaccinium 264.

Type locality: Chile.

Distribution: Tahiti 142; Hawaii 264.

I place the synonomy as above on account of the host and geographic relations and regard my description of *M. alyxiae* as an emended description of *M. moerenhoutiana*.

No. 34. **Meliola kaduae** Stevens, Bish. Mus. Bul. **19**: 30. 1925.

On Rubiaceae: Straussia, Gouldia.

Type locality: Oahu, Hawaiian Islands, Stevens *601*.

Citations: 264*, 215*.

No. 35. **Meliola pennata** v. Höhnel, Sitzber. K. Akad. Wiss. Wien (Vienna) Math.-naturw. Kl. **118**: 857. 1909.

On unknown host.

Type locality: Buitenzorg, Java.

No. 36. **Meliola microtricha** Sydow, H. & P., Ann. Mycol. **18**: 157. 1920.

On Moraceae: Ficus.

Type locality: Singapore.

Specimens: Baker, Fungi Mal. *490*, *491*.

No. 37. **Meliola horrida** Ellis & Everhart in Smith, Bul. Univ. Ia. **2**: 396. 1893.

On Myrtaceae: Psidium.

Type locality: Nicaragua.

## Conspectus of Group 3, Meliola.

Ch. alternate or opposite

3143. 3221, s. 120—170 μ, dark, dichotomous, pr. br. 40—70 μ, apices of branches swollen, hc. entire, on Convolvulaceae *permixta* No. 38.

3143. 4231, s. 250—300 μ, branches acute, once dichotomous, sometimes dentate, hc. ovoid, elongate or lobed, on Araliaceae *dichotoma* No. 39.

3143. 4231, s. 200—300 μ, branches 10—15 μ, sometimes toothed, colony crustose, hc. clavate, on Opiliaceae . . . . . *agonandrae* No. 40.

3143. 3221, s. 100—160 μ, 1—2 dichotomous, pale, pr. br. 60 μ, obtuse, hc. globose, on Convolvulaceae . . . . . *pallida* No. 41.

3143. 3121, s. 150—200 μ, 1—3 dichotomous, pr. br. divaricate. 20 μ, acute, on Piperaceae *piperis* No. 42.

3143. 5221, s. —250 μ, 1-2-3 dichotomous, pr. br. 25—90 μ, on Solanaceae . . . *dicranochaeta* No. 43.

3143. 3221, s. 200—250 μ, pr. br. 120—150 μ on Saxifragaceae . . . . . *choristylidis* No. 43a.

Ch. opposite

3142. 5221, s. 230—300 μ, 1-2-3-4 dichotomous, pr. br. 120 μ, tips acute, hc. oval, regular, on Araceae . . . . . *philodendri* No. 44.

3142. 4232, s. 250—325 μ, pr. br. 10—90 μ, bifid, hc. cylindric to oval, on Santalaceae *bifida* No. 45.

3142. 3221, s. 215—260 μ, pr. br. 55 μ, thin, pale, very variable, hc. cylindric, on Marantaceae . . . . . *calatheae* No. 46.

3142. 3221, s. 125—170 μ, 1-2-3 dichotomous, pr. br. 10—14 μ, thick, dark, hc. cylindric, on Leguminosae . . . . . *chagres* No. 47.

Ch. alternate

Branching of special character

3141. 3221, s. 150—200 μ, 1—2 dichotomous, primary and secondary branches, strongly recurved, obtuse, on Leguminosae . . . . . *juruana* No. 48.

3141. 4221, s. 220—280 μ, 1—2 dichotomous, pr. br. 110—190 μ, tips swollen, hc. ovoid or irregular, on Bignoniaceae *tumor* No. 49.

3141. 3221, s. 1—2 dichotomous, upper secondary branch thrice dichotomous, lower usually simple, on unknown host *forbesii* No. 50.

3141. 3221, s. 100—150 μ, branches very irregular, slender, hc. subglobose-oblong, on Bignoniaceae . . . . . *lundiae* No. 51.

Branching not of special character

Primary branches 90 μ

3141. 4331, s. 250—300 μ, 1-2-3-4 dichotomous, pr. br. long, secondary short, hc. globose or lobed, on Compositae . *mikaniae* No. 52.

3141. 4221, s. 150—200 μ, pr. br. 100 μ, bifid, 10 μ, hc. oblong, cylindric, on Araliaceae . . . . . *leptoclada* No. 53.

3141. 5231, s. 200—300 μ, 1-2-3 dichotomous, pr. br. 130 μ, 2d 30—80 μ, hc. ovate or globose, on Araliaceae . . . *leptidea* No. 54.

3141. 4231, s. 300 μ, pr. br. 80—150 μ, redivided and apices 2—4 furcate, hc. oval, oblong or lobed, on Rutaceae . . *patens* No. 55.

3141. 5222, s. 300—400 μ, once, rarely twice, dichotomous, pr. br. 100 μ, apices acute, on Rutaceae . . . . . *tenella* No. 56.

Primary branches 90 μ —, 35 μ +

3141. 3231, s. 120—160 μ, pr. br. 40—90 μ, divergent, hc. irregular, on Convolvulaceae . . . . . *quadrispina* No. 57.

3141. 4221, s. 150—200 μ, 1-2-3 dichotomous, pr. br. 60—80 μ, hc. sub-globose, on Araliaceae . . . . . *boerlagiodendriae* No. 58.

3141. 6321, s. 230—280 μ, pr. br. 70—80 μ, variable, hc. irregular, on Palmae . . *elaeis* No. 59.

3141. 4322, s. 250—350 μ, pr. br. 20—70 μ, these often 2-3 furcate, 8—20 μ, on Lauraceae . . . . . *calochaeta* No. 60.

3141. 3221, s. 160—220 μ, 2 branches, 35—70 μ, with apices, 2—3 dentate, hc. globose or lobed, on Vitaceae . . . . *merrillii* No. 61.

3141. 5232, s. 350—400 μ, pr. br. 60 μ, acute, hc. globose or ovate, on Piperaceae *pululahuensis* No. 62.

3141. 5221, s. 200 μ, 2 pr. br. 40 μ, dentate, hc. ovoid, on Gramineae . . . . *arundinis* No. 63.

3141. 3221, s. 200—280 μ, dichotomous, pr. br. 30—40 μ with dichotomous toothed apices, hc. ovoid or oblong, on Anacardiaceae . . . . . *tapirirae* No. 64.

Primary branches 35 μ —

3141. 4231, s. 250—300 μ, divergent, pr. br. 2—3,30—40 μ, incised, hc. ovate or sub-globose, on Palmae . . . . . *furcata* No. 65.

3141. 4224, s. 500—1500 μ, simple or 3—5 dentate, —16 μ, hc. elliptical, on Palmae . . . . . *furcata* var. *copernicíae* No. 66.

3141. 4211, s. 150 μ, pr. br. 30 μ, 1—2 dichotomous, hc. ovate, on Palmae . . *morrowii* No. 67.

3141. 3221, s. 130—200 μ, 3—4 dichotomous, pr. br. 7—11 μ, hc. clavate, on Palmae . . . . . *melanococcae* No. 68.

3141. 3221, s. 150—225 μ, 2—3 fid, pr. br. 18—25 μ, toothed, hc. oblong, on Apocynaceae . . . . . *guamensis* No. 69.

3141. 4221, s. 190 μ, 1—2 dichotomous, pr. br. 15—35 μ, divergent, acute, dark, thick, hc. ovate or lobed, on Cucurbitaceae *cucurbitacearum* No. 70.

3141. 4221, s. 230—260 μ, irregularly divided, pr. div. 14 μ, ascending, toothed, thin, pale, hc. globose, on Euphorbiaceae *crotonicola* No. 71.

3141. 4222, s. 175—400 μ, 2—6 pr. br. 10 μ, irregularly dentate, hc. globose, on Gramineae . . . . . *sacchari* No. 72.

3141. 5331, s. 300—380 μ, 3—4 short, 20—40 μ, acute, branches variously forked, hc. globose, on Gramineae . . . . . *bambusae* No. 73.

3141. 5331, s. longer, on Rutaceae *bambusae* var. *atalantiae* No. 74.

3141. 4232, s. 250—350 μ, 3-furcate, branches bi-tri dentate, on Liliaceae . . . *dracaenicola* No. 75.

31¾1. 3223, s. 350—700 μ, primary branches, 2—6, 3—20 μ, these toothed or branched, hc. sub-globose, on unknown host . . . . . *heterodonta* No. 76.

No. 38. **Meliola permixta** Sydow, H., Annal. Mycol. **21**: 90. 1923.

On Convolvulaceae: Ipomoea.

Type locality: British North Borneo, *2146*, Ramos.

Specimen: the type.

No. 39. **Meliola dichotoma** Berkeley & Curtis, Proc. Amer. Acad. Arts & Sci. **4**: 130, No. 171. 1860.

On Araliaceae: Hedera 83. On Gramineae: Phragmites 293, 4, 301.

Type locality: Japan, on Hedera.

Distribution: Japan 16, 83, 5; Philippines 293, 4, 301.

Citations: 83*, 267.

Specimens: the type, Phil. Bur. Sci. *6767*, *9101*.

No. 40. **Meliola agonandrae** Spegazzini, An. Mus. Nac. Buenos Aires, **32**: 388. 1924.

On Opiliaceae: Agonandra.

Type locality: Misiones, Argentine.

No. 41. **Meliola pallida** n. sp.

Colony 2—3 mm. in diameter, epiphyllous. Mycelium straight, branching mostly opposite. Capitate hyphopodia opposite or alternate, stalk cell short, 3—4 μ, head cell globose, 7—8 μ. Mycelial setae pale, 7—8 μ thick, 110—160 μ long, branched once or twice dichotomously or irregularly at apex, branches up to 60 μ long, obtuse.

Perithecia globose, smooth, 140—155 μ in diameter. Spores 4-septate, 39 × 14 μ.

Group number 3143. 3221. Fig. 3.

On Convolvulaceae: Ipomoea sp. British Guiana, Tumatumari, July 12, 1922, *228* type; associated with *M. clavulata* and *M. malacotricha*.

This species is remarkable in the form of its setal tips and for the pale color of the setae. The mycelium and hyphopodia are very like those of *M. clavulata* which occurs upon the same leaves, but the hyphopodia are frequently alternate. The setae differ also in color and thickness from these of *M. clavulata* yet these fungi are clearly closely related notwithstanding the fundamental difference in their setal tips. It is also close to *M. permixta* but is quite distinct from it in the color of the setae and the character of the setal branching.

No. 42. **Meliola piperis** Earle, Muhl. **1**: 12. 1901.

On Piperaceae: Piper.

Type locality: Porto Rico, Heller *4359 b*.

Specimen: the type.

Distribution: Porto Rico 261; Santo Domingo 331 a.

Citation: 230 a.

New records: On Piperaceae: Piper sp. British Guiana, Tumatumari, July 12, 1922, *194*. A species of *Helminthosporium* is present on this specimen.

No. 43. **Meliola dicranochaeta** Sydow, H., Annal. Mycol. **24**: 301. 1926.

On Solanaceae: Cestrum.

Type locality: San Pedro de San Ramon, Costa Rica *390*.

Specimen: the type.

No. 43a. **Meliola choristylidis** Doidge, Both. **11**: 236. 1927.

On Saxifragaceae: Choristylis.

Type locality: So. Africa.

No. 44. **Meliola philodendri** Stevens, Ill. Biol. Mono. **2**: 60. 1916.

On Araceae: Philodendron.

Type locality: Porto Rico, Stevens *7225*.

Citations: 261*, 230a.

No. 45. **Meliola bifida** Cooke, Grev. **9**: 15. 1880. Emend. Doidge, Trans. Roy. Soc. So. Africa **5**: 748. 1917.

On Santalaceae: Osiridicarpos 30, 83. On Rubiaceae: 184.

Type locality: Natal, Africa, on Santalaceae.

Distribution: Africa 30, 83, 45; Brazil 184.

Citations: 45*, 55.

Specimen: Union So. Afr. *9020*.

No. 46. **Meliola calatheae** n. sp.

Colonies hypophyllous, black, irregular, 1—3 cm or larger in diameter. Mycelium straight, thin, 6 μ, branching opposite. Capitate hyphopodia opposite, very regularly arranged, about 20—36 μ apart. Stalk cell short, 3—4 μ; head cell cylindrical, 8—11 × 7 μ. Mucronate hyphopodia ampulliform.

Perithecial setae none. Mycelial setae 215—260 μ long, black, at the tip variously, sometimes intricately branched, branches up to 55 μ long, usually repeatedly dichotomous to the third or fourth degree, sometimes short and close, others very long and loose. Perithecia globose, smooth, 135—155 μ in diameter. Asci evanescent. Spores 4-septate, 36—43 × 14 μ.

Group number 3142. 3221. Fig. 4.

On Marantaceae: Calathea insignis. Costa Rica, Columbiana, July 19, 1923, *578* (type). On Bihai pendula. Costa Rica, San Cecelia, Aug. 7, 1923 *766*, *749*.

Though the setae are often abundant, sometimes they are lacking in large areas, thus the examination of limited material might lead to the belief that this is of the *Irene* group.

No. 47. **Meliola chagres** n. sp.

Colonies amphigenous but mostly hypophyllous, not dense, irregular, indefinite, 3—20 mm. in diameter, black. Mycelium straight, 6 μ, branches mostly opposite, distant. Spot none. Capitate hyphopodia mostly opposite, about 36 μ apart. Stalk cell short, 3—4 μ; head cell cylindric, obtuse, 11 × 7 μ, often bent forward or backward. Mucronate hyphopodia ampulliform, few, 18—21 × 6 μ, neck long.

Perithecial setae none. Mycelial setae straight, rigid, black, 123—170 μ, dichotomous, primary branches widely spreading, 10—14 μ long, these dividing once or twice more. Peritheica globose, smooth, 155—185 μ. Asci evanescent. Spores 4-septate, 32 × 11—14 μ.

Group number 3142. 3221. Fig. 5.

On Leguminosae: Inga sp. Panama, Chagres mouth, Aug. 23, 1923, *1288*.

No. 48. **Meliola juruana** Hennings, Hedw. **43**: 365. 1904.

On Leguminosae: Lonchocarpus.

Type locality: Amazon, Peru, Ule *2935*.

Citation: 101*.

Specimen: the type.

No. 49. **Meliola tumor** n. sp.

Colonies amphigenous, more commonly epiphyllous, indefinite, diffuse, covering nearly the whole leaf. Mycelium straight, dark, branching mostly opposite. Capitate hyphopodia alternate. Stalk cell short, 3—4 μ; head cell ovoid to cylindrical, rarely irregular, 18—22 × 11—15 μ. Mucronate hyphopodia ampulliform, mostly opposite, 25 μ long.

Perithecial setae none. Mycelial setae 220—280 μ, forked dichotomously once or twice, primary branches 110—190 μ long. Ultimate tips of branches swollen and minutely roughened. Perithecia 150—185 μ in diameter, globose, smooth. Asci evanescent. Spores 4-septate, 47—50 × 18 μ, constricted.

Group number 3141. 4221. Fig. 6.

On Bignoniaceae: British Guiana; Rockestone, July 16, 1922, *422*.

This species is quite remarkable for its long-branched setae with swollen tips.

No. 50. **Meliola forbesii** Gaillard, Le Gen. Mel. 110. 1892.

On unknown host: 83, 201. On Convolvulaceae: Merremia 201, 5.

Type locality: Sumatra, Forbes *2893*, on unknown host.

Distribution: Sumatra 9; Philippines 201, 5.

Citation: 83*.

Specimen: Phil. Bur. Sci. *1978*.

No. 51. **Meliola lundiae** n. sp.

Colony 1—3 mm., circular, thin, Mycelium sub-straight, 5—6 μ thick. Capitate hyphopodia alternate, antrorse, stalk short, 3—4 μ; head cell sub-globose to oblong. Mucronate hyphopodia ampulliform.

Perithecial setae none. Mycelial setae few, 100—150 μ, 7 μ thick at base, very irregularly branched at tip; perithecia globose, borne on a 36 μ disk, 60—125 μ. Asci evanescent. Spores 4-septate, 22—32 × 11—14 μ.

Group number: 3141. 3221. Fig. 7.

On Bignoniaceae: Lundia umbrosa. Ecuador, Barrn'nital, Nov. 17, 1924, *321*.

No. 52. **Meliola mikaniae** Gaillard, Bul. Soc. Mycol. France **8**: 187. 1892.
On Compositae: Mikania. On Vitaceae: Cissus (?).
Type locality: Ecuador, on Mikania.
Distribution: Ecuador 84, 163; Brazil 184.
Citation: 84*.
No. 53. **Meliola leptoclada** Sydow, H., Annal. Mycol. **20**: 62. 1922.
On Araliaceae: Schefflera.
Type locality: China *11133*.
Specimen: the type.
No. 54. **Meliola leptidea** Sydow, H. & P., Annal. Mycol. **10**: 38. 1912.
On Araliaceae: Cussonia.
Type locality: South Africa, Pole Evans *405*.
Citations: 45*, 55, 18b.
Specimen: the type.
No. 55. **Meliola patens** Sydow, H. & P., Leaf. Philippine Bot., C. Bot. **5**: 1538. 1912.
On Rutaceae: Lunasia.
Type locality: Palawan, Philippines *13023*.
Citation: 4.
Specimen: Phil. Bur. Sci. *13023*.
This species appears to be very close to *M. tenella*.
No. 56. **Meliola tenella** Patouillard, Rev. Mycol. **10**: 140. 1888.
On Rutaceae: Murraya.
Type locality: Tonkin, China.
Citations: 154*, 83*.
No. 57. **Meliola quadrispina** Raciborski, Parasitische Algen und Pilze Java's **3**: 33. 1900.
*Meliola quadrifurcata* Rehm, Philippine Jour. Sci., C. Bot. **8**: 181. 1913.
On Convolvulaceae: Ipomoea 4, 175, 261, 196, Hewittia 294, 4, 86, Merremia 201, 301.
Type locality: Java, on Convolvulaceae.
Distribution: Java 196, 175; Philippines 294, 201, 5, 86, 4, 301; Porto Rico 261.
Citation: 261*.
Specimen: Merrill *8408*.
The synonomy given above is based on Rehm's assertion of the identity of the two species (201). The specimen reported by me (261) under this name, on comparison with authentic material, proves to be different. Specimen, Merrill *8655* on Hewittia, issued under this name is a very different species, *M. malacotricha*.
No. 58. **Meliola boerlagiodendriae** Yates, Philippine Jour. Sci. **13**: 365. 1918.
On Araliaceae: Boerlagiodendron.
Type locality: Philippines, Bur. Sci. *28911* Ramos & Edaño.
Specimen: Phil. Bur. Sci. *28911*.

No. 59. **Meliola elaeis** n. sp.

Colony densely black, epiphyllous, 2—10 mm. in diameter, irregular. Mycelium black, thick, 7—8 μ, straight, dense in older parts of colonies. Spot none. Capitate hyphopodia alternate, Stalk cell short, 3—7 μ; head cell very irregular, 25—28 ⩽ 14 μ. Mucronate hyphopodia ampulliform.

Perithecial setae none. Mycelial setae black, stiff, 230—280 μ long, variously branched; branches 70—80 μ long, acute or obtuse. Perithecia globose, smooth, 150—170 μ. Asci evanescent. Spores 4-septate, 57—61 ⩽ 22 μ, dark, constricted.

Group number: 3141. 6321. Fig. 8.

On Palmae, Panama, Culebra, Oct. 2, 1925, *943* (type), Chagres mouth, Aug. 22, 1923, *1266*. On Elaeis melanococca. Costa Rica, Swamp Mouth. Aug. 9, 1923. *823*, Limon, Aug. 7, 1923, *770*.

The branching of the setae is very characteristic. There is usually a stiff thick, 11 μ, stalk arising about 150 μ unbranched. At this point it separates into 2, 3 or 4 branches, each about 70—80 μ long; often these branches fork again. Much difference is found in various colonies as to the abundance of setae. Many colonies quite large are entirely devoid of setae, but when old enough to bear perithecia they seem always to be setigerous.

No. 60. **Meliola calochaeta** Sydow, Leaf. Philippine Bot. 9: 3117. 1925.

On Lauraceae: Cryptocarya.

Type locality: Sorsogon, Philippines *17331*.

Specimen: the type.

No. 61. **Meliola merrillii** Sydow, H. & P., Philippine Jour. Sci., C. Bot. 8: 479. 1913.

*Meliola varia* Doidge, Trans. Roy. Soc. So. Africa 5: 738. 1917.

On Vitaceae: Cissus 294, 4, 301, 261, Rhoicissus 45, 51.

Type locality: Luzon, Philippines, *8672*, Merrill.

Distribution: Philippines 294, 4, 301; Porto Rico 261; So. Africa 45; 18b Santo Domingo 331a.

Citations: 215, 45*, 230a.

Specimens: Merrill *8672* (cotype), Phil. Bur. Sci. *23885*, Doidge *1639*, *11554*.

Miss Doidge writes that she "can see no essential difference" between these species.

New records: — On Vitaceae: Cissus rhombifolia. Panama, Mandingo, Oct. 15, 1924, *1318*, Corozal, trail 17, Aug. 29, 1924, *120*. On Cissus sicyoides. Costa Rica, Port Limon, Aug. 10, 1923, *868*, Experiencia Farm, July 18, 1923, *539*, Peralta, July 11, 1923, *326*, Siquirres, July 31, 1923, *685*; Panama, Pedro Miguel, Sept. 9, 1924, *348*, Bella Vista, Oct. 7, 1924, *1126*, France Field, Sept. 2, 1924, *189*, Mandingo, Oct. 15, 1924, *1351*, Summit, Sept. 12, 1924, *458*.

The agreement in characters between specimens of this fungus from Porto Rico, South America, and the Philippines is remarkably close. The specimens on *C. rhombifolia* show the colonies much less developed and it appears that the fungus is not so well adapted to parasatism on this host as on *C. sicyoides*.

No. 62. **Meliola pululahuensis** Gaillard, Bul. Soc. Mycol. France 8: 183. 1892.

On Piperaceae: Piper.

Type locality: Ecuador.

Citations: 163, 84*.

Specimen: the type.

No. 63. **Meliola arundinis** Patouillard, Jour. Bot. (Paris) 11: 348. 1897. *Meliola dolabrata* Sydow, H. & P., Bot. Jahrb. (Engler) 56: 431. 1921.

On Gramineae: Arundo 157, 86, Saccharum 294, 86, 301, 306, Phragmites 264a.

Type locality: China.

Distribution: China 157, 86; Philippines 294, 301, 4; East Carolines 306.

Citations: 277, 153, 267; India 264a.

Specimen: Phil. Bur. Sci. *23260* (Det. by Sydow).

This agrees well with the description and shows the capitate hyphopodia alternate.

These specimens are of somewhat unusual interest in that the setae are sometimes simple.

No. 64. **Meliola tapirirae** Stevens & Tehon, Mycol. 18: 13. 1926.

On Anacardiaceae: Tapirira.

Type locality: British Guiana, Stevens *330*.

Citation: 266*.

No. 65. **Meliola furcata** Léveillé, Ann. Sci. Nat. Bot., Sér. 3, 5: 266. 1846.

On Piperaceae: 12, Artanthes 132. On Ranunculaceae: Clematis 12. On Bignoniaceae: 177, 236, Macrodiscus 261. On Palmae: Coccothrinax 261, 29e, 331a, Acrista 261, Thrinax 261, Sabal 63. On Rutaceae: Atalantia 14, 218. On Araliaceae: Cussonia 281. On Anacardiaceae: Astronium 236.

Type locality: Dutch Guayana, on Palm.

Distribution: Guayana 131, 132, 19, 20, 12, 83; Nicaragua 12, 13, 154, 64, 83; Southern United States 33; Paraguay 33; Argentine 235, 236; Cuba 154, 83; South Africa 281; Porto Rico 261; Ceylon 218, 14; Dominica 29e, 331a.

Citations: 20*, 30, 134, 17, 154*, 64*, 83*, 69*, 153, 254, 267, 230a.

Specimens: the type, Rav., Fung. Amer. *330*, Roum. *4433*.

Erroneously reported as *Meliola furcata* Lev. are: *Meliola palmicola* Wint. on Sabal (134); *Meliola bidentata* (241); *Meliola bambusae* Pat. (17); also Ellis N. A. F. *1297* A. & B. are *M. bidentata*, *1297c* is *M. palmicola*.

The most reliable study of this species is probably that of Patouillard (154) based upon Léveillé's specimens from Dutch Guayana and placed

by Léveillé in the Museum of Paris. The drawings presented of the setae are very definite. Spegazzini holds that *M. bidentata* Cke. is *M. furcata*.

No. 66. **Meliola furcata** Léveillé var. **copernicíae** Spegazzini, An. Mus. Nac. de Hist. Nat., Buenos Aires **31**: 400. 1923.

On Palmae: Copernicia.

Type locality: Paraguay, Bertoni *1081*.

No. 67. **Meliola morrowii** n. sp.

Colony diffuse, irregular, epiphyllous. Mycelium straight longitudinal of the leaf, slightly crooked across. Capitate hyphopodia alternate. Stalk cell short, 3—4 μ; head cell regular, ovate, 11 ⩽ 9 μ. Mucronate hyphopodia ampulliform, alternate or opposite.

Perithecial setae none. Mycelial setae about 150 μ long, 7—8 μ thick at base, primary branches about 30 μ long, once, twice or thrice dichotomously forked. Perithecia globose, 62—80 μ, smooth. Asci evanescent. Spores 4-septate, 43 ⩽ 11—15 μ.

Group number 3141. 4211. Fig. 9.

On Palmae. Panama, Baillemona, Sept. 20, 1924, *680*. Named in honor of Gov. J. Morrow in recognition of his services to biologic sciences.

This species is separated at once from *M. furcata* by the characters of its mycelium and hyphopodia. The setal branching is much as is figured by Gaillard for *M. furcata*.

No. 68. **Meliola melanococcae** n. sp.

Colonies thin, diffuse, circular, 5—10 mm. in diameter. Mycelium somewhat crooked, black, 5—6 μ. Capitate hyphopodia alternate, not numerous, usually regular, sometimes slightly irregular. Stalk cell short, 3—4 μ; head cell clavate, 20—25 ⩽ 7—11 μ. Mucronate hyphopodia ampulliform, crooked, narrow,

Perithecial setae none. Mycelial setae 130—200 μ long, 3—4 times dichotomously branched at tip. Primary branches 7—11 μ long. Perithecia globose, 90—108 μ, somewhat rough. Asci evanescent. Spores 4-septate, 39 ⩽ 11 μ.

Group number 3141. 4221. Fig. 10.

On Palmae: Elaeis melanococca. Peru, Huacapistana, Dec. 6, 1924, *79* (type); Panama, Darien, Sept. 10, 1924, *403*, Mandingo, Oct. 15, 1924, *1316*.

This differs markedly from *M. furcata* and *M. elaeis* in the branching of the setal tips and in colony character.

No. 69. **Meliola guamensis** Sydow, H., Annal. Mycol. **19**: 304. 1921.

On Apocynaceae: Ochrosia.

Type locality: Guam, McGregor *586*.

Specimen: the type.

No. 70. **Meliola cucurbitacearum** Stevens, Ill. Biol. Mono. **2**: 58. 1916.

On Cucurbitaceae: probably Cayaponia.

Type locality: Porto Rico, Stevens *8732*.

Citations: 261*, 230a.

No. 71. **Meliola crotonicola** n. sp.

Colonies diffuse, hypophyllous, 2—12 mm. in diameter. Mycelium very crooked, translucent. Capitate hyphopodia alternate. Stalk cell short, 3—6 μ; head cell globose, 9 μ. Mucronate hyphopodia ampulliform, narrow, 18 × 6—7 μ.

Perithecial setae none. Mycelial setae 230—260 μ long, several times divided at the tip into short teeth, primary branches 14 μ, these irregularly toothed. Perithecia globose, smooth, 105—155 μ in diameter, no radiate disk. Asci evanescent. Spores 4-septate, elliptical, 43—50 × 14—15 μ.

Group number 3141. 4221. Fig. 11.

On Euphorbiaceae: Croton. Costa Rica, Siquirres, July 31, 1923, *687*.

The mycelium, capitate hyphopodia, and especially the setal tips are characteristic.

No. 72. **Meliola sacchari** Sydow, H. & P., Ann. Mycol. **12**: 548. 1914.

On Gramineae: Saccharum, Imperata 9.

Type locality: Luzon, Philippines, Bur. Sci. *20051*, McGregor.

Citation: 267.

Specimen: the type.

This agrees in general type with *M. arundinis* and should perhaps be regarded merely as a variety with somewhat longer setae.

No. 73. **Meliola bambusae** Patouillard, Rev. Mycol. **10**: 140. 1888.

On Gramineae: Bambusa 154, 83, 155.

Type locality: Tonkin, China (Balansa).

Citations: 154, 83*, 17.

Specimens: Roum., Fungi Sel. Gal. Exs. *4433* sub *M. furcata*.

No. 74. **Meliola bambusae** Patouillard var. **atalantiae** Patouillard, Jour. Bot. **11**: 348. 1897.

On Rutaceae: Atalantia.

Type locality: Tonkin, China.

No. 75. **Meliola dracaenicola** Patouillard & Hariot, Bul. Soc. Mycol. France **24**: 14. 1908.

On Liliaceae: Dracaena 161, Behnia 56.

Type locality: Congo, Africa.

Citations: 56*, 267, 54*.

Specimen: Union So Afr. *14955*.

The setae are given by Doidge as 250—350 μ long.

No. 76. **Meliola heterodonta** Sydow, H. & P., Ann. Mycol. **14**: 357. 1916.

On Anacardiaceae: Dracontomelum.

Type locality: Philippines, Baker *4031*. On unknown host.

Specimen: Baker, Fungi Mal. *252*.

## Conspectus of Group 4, Meliola.

Hc. alternate or opposite

Perithecium transculent

3133. 4221, perithecium translucent, on Leguminosae . . . . . *pellucida* No. 77.

Perithecium not translucent

3133. 4221, hc. globose, s. —280 μ, with, two simple branches, or dentate, on Leguminosae . . . . . *bicornis* No. 78.

3133. 4221, on Leguminosae . . . *bicornis* var. *calopogonii* No. 79.

3133. 3222, hc. globosc. s. 230 μ, 1-2-3 dichot. or irregularly branched, on Araceae *bicornis* var. *amerimni* No. 80.

3131. 3223, s. 400—650 μ, 2—3 dentate, on Leguminosae . . . . . *bicornis* var. *tephrosiae* No. 81.

3133. 3223, s. 350—540 μ, rough or 2—4 dentate, on Leguminosae . . . *bicornis* var. *millettiae* No. 82.

3133. 4221, hc. entire, curved, s. 200—300 μ, 1—4 dentate, —15 μ, on Leguminosae *bicornis* var. *robinsonii* No. 83.

3133. 3222, s. 400 μ, dentate or short branched, hc. globose, sub-globose, on Araceae *dieffenbachiae* No. 84.

3133. 4222, s. 400 μ, 2—3 dentate, 5—12 μ, on Anacardiaceae . . . . . *weigeltii* No. 85.

3133. 6322, s. 300—370 μ, 1-2-3 dentate, hc. ovoid, globose or lobed, on Loranthaceae *loranthi* No. 86.

3133. 6222, s. —350 μ, 2—3 short branches, hc. ovate, on Malpighiaceae . . . . . *crenata* No. 87.

3133. 3322, s. 200 –400 μ, dentate, variable, 2—3 toothed, 4 to 20 μ, hc. irregularly lobed, on Sapindaceae . . . . . *sapindacearum* No. 88.

3133. 3242, s. 200—300 μ, 2—6 forked, pr. br. —24 μ, hc. cylindric to conic or irregular, on Verbenaceae . . . . . *campylopoda* No. 89.

Hc. opposite

3132. 3224, s. biform: a-1700 μ, tip toothed, b-185—240 μ, much branched, on Zingiberaceae . . . . . *longistipitata* No. 90.

3132. 3221, s. 230 μ, 2-many dentate, hc. globose, spores strongly constricted, on Sapindaceae . . . . . *serjaniicola* No. 91.

3132. 4221, s. 150—250 μ, 3—6 dentate, 2—7 μ, hc. cylindrical, not crowded, on Sapindaceae . . . . . *odontocephala* No. 92.

3132. 4221, s. 90—200 μ, several dentate, hc. ovate, on Solanaceae . . . . . *wismarensis* No. 93.

3132. 3221, s. 250—300 μ, 2—3 furcate, spores not strongly constricted, on Solanaceae . . . . . *fuscidula* No. 94.

3132. 4221, s. 260—280 μ, 2-several dentate, 7—30 μ, hc. oblong, crowded, on Rubiaceae *kauaiensis* No. 95.

3132. 4231, s. 150—300 μ, trident and branches bi- or tri-dentate, hc. ovate, sometimes lobed, on Bignoniaceae . . . . . *harioti* No. 96.

Hc. alternate

Setal teeth very short and numerous, i. e. crested or crenulate

3131. 3221, s. 220 μ, crested, hc. ovoid, pyriform, crowded, 7—17 μ apart, on Piperaceae *gaillardiana* No. 97.

3131. 3221, s. 185—215 μ, intricately 3-4-short branched, 7—10 μ, colony not very dense, hc. sub-globose, ovate, very irregularly placed, on Piperaceae . . . . *zeteki* No. 98.

3131. 4222, s. 300—350 μ, crenulate or denticulate, hc. ovoid, on Leguminosae . . . *denticulata* No. 99.

3131. 3222, s. 250—330 μ, end cell rough by short teeth, crenulate or short dentate, hc. globose, ovoid, 11⩽14 μ, on Leguminosae . . . . . *crenatissima* No. 100.

3131. 3221, s. —230 μ, tip a crested head, 20—30 μ, hc. ovoid, pyriform, 17—48 μ apart, on Leguminosae . . . . . *cristata* No. 101.

3131. 3221, s. 260—280 μ, tip with a whorl of many short teeth, hc. ovate, on Bignoniaceae . . . . . *cydistae* No. 102.

3131. 2221, s. 150—220 μ, crested or dentate, 1—2 μ, hc. globose, ovoid, on Bignoniaceae *dentifera* No. 103.

3131. 4221, s. 250—400 μ, cristate, hc. oblong, colony not tenuous, on Anacardiaceae . *anacardii* No. 104.

3131. 3221, s. 200—275 μ, crested with 2—5 teeth, colony tenuous, hc. clavate, on Anacardiaceae . . . . . *geniculata* No. 105.

3131. 4231, s. 200—275 μ, 2—5 teeth, hc. clavate, on Anacardiaceae . . *geniculata* var. *macrospora* No. 106.

3131. 3222, s. 300—350 μ, crenate or dentate, 2—4 teeth, —12 μ, hc. cylindrical, on Malpighiaceae . . . . . *crenato-furcata* No. 107.

Setae not crested

3131. 3221, s. 200—230 μ, 2—3 furcate, short, hc. globose, on Solanaceae . . . . . *solanicola* No. 108.

3131. 4222, s. 300—380 μ, 3—4 short branched, hc. globose, on Piperaceae . . . *patouillardi* No. 109.

3131. 3223, s. 300—525 μ, with a few short teeth, hc. globose, 12—14 μ, on Leguminosae . . . . . *trinidadensis* No. 110.

3131. 3211, s. 180 μ, dentate, 3—14 μ, hc. sub-globose, ovate or truncate, on Leguminosae . . . . . *diphysae* No. 111.

3131. 4233, s. 500—600 μ, 2—3 furcate, hc. globose, ovate, few, on Leguminosae . . *zollingeri* No. 112.

3131. 3221, s. 220—250 μ, few, on Leguminosae . . . . . *zollingeri* var. *minor* No. 113.

3131. 4223, s. 875 μ, 2—3 branched, 25—28 μ, hc. ovate, elliptical, on Leguminosae . . *evanida* No. 114.

3131. 3222, s. 270—300 μ, dentate, hc. globose, regular, colony loose, on Bignoniaceae . *bignoniacearum* No. 115.

3131. 4221, colony close, s. 2—5 dentate, on Bignoniaceae . . . . . *bidentata* No. 116.

3131. 5221, s. 200—225 μ, 3—4 short, simple branches, hc. globose, ovate, on unknown host . . . . . *monilispora* No. 117.

3131. 3222, s. 275—500 μ, dentate, hc. ovate, on Sapindaceae . . . . . *paulliniae* var. *dentata* No. 118.

3131. 4232, s. 220—360 μ, 4-dentate, 3—14 μ, hc. ovate, on Rutaceae . . . . . *galipeae* No. 119.

3131. 5221, s. 200—250 μ, 3—4 divergent branches, 15—20 μ, these 2—3 dentate, hc. ovate, on Rutaceae . . . . . *evodiae* No. 120.

3131. 4223, s. 500—700 μ, 2—4 dentate, 15 μ, hc. oblong, ovate or pyriform, on Rutaceae *citricola* No. 121.

3131. 2221, s. 200—280 μ, 2—3 dentate, 7—11 μ, hc. ovate, on Rubiaceae . . . *duggenae* No. 122.

3131. 2221, on Rubiaceae . . . *duggenae* var. *panamensis* No. 123.

3131. 4222, s. 300—420 μ, dentate, 16 μ, hc. obovate, on Anacardiaceae . . . . . *opaca* No. 124.

3131. 4224, myc. crooked, hc. conic but often curved, s. tips coarsely branched, then with many fine branches, on Anacardiaceae . *multiseta* No. 125.

3131. 3222, s. 350—450 μ, bifid, 4—6 μ, hc. cylindrical, on Myrtaceae . . . . . *helleri* No. 126.

3131. 4223, s. 380—670 μ, with several short teeth, hc. cylindric to clavate, or irregular, on Sapindaceae . . . . . *sapindi* No. 127.

3131. 5322, s. 380 μ, few, short dentate, hc. irregular-cylindrical, on Burseraceae *protii* No. 128.
3131. 4222, ms. 300—450 μ, 1—2 forked, pr. br. —32 μ, on Burseraceae . . . . *burseracearum* No. 129.
3131. 5332, s. 200—350 μ, 3-lobed, lobes entire or 2—3 dentate, hc. cylindrical or clavate, on Moraceae . . . . . *soroceae* No. 130.
3131. 3231, s. 250—300 μ, 2 pr. br., hc. globose or angular, on unknown host . *andina* No. 131.
3131. 4222, s. 250—400 μ, 2—6 dentate, —15 μ, hc. ovate or angular, on Gramineae . . *imperatae* No. 132.
3131. 4223, s. 500—1500 μ, 2—3 dentate, acute, + disk, hc. antrorse, on Palmae *palmicola* var. *coperniciae* No. 133.
3131. 4233, s. 600—800 μ, 2—6 dentate, 1—2 μ, on Asclepiadaceae . . . . . *odontochaeta* No. 134.
3131. 5233, s. 600—800 μ, 1—3 irregular teeth, —20 μ, hc. sub-globose or slightly irregular, on Stemonaceae . . . . . *stemonae* No. 135.

No. 77. **Meliola pellucida** Gaillard, Le Gen. Mel. 103. 1892.

On Leguminosae: 101, Phaseolus? 83. On Liliaceae: Dioscorea 101.

Type locality: Ecuador, on Leguminosae.

Distribution: Ecuador 83; Peru 101.

Citation: 83*.

No. 78. **Meliola bicornis** Winter, Hedw. **25**: 99. 1886.

On Leguminosae: 348, 349, 58, 181, 166, 174, 83, Mimosa 313, 83, 261, Meibomia (Desmodium) 261, 83, 166, 313, Acacia 163, 184, Dalbergia 261, Bradburya 261, Lonchocarpus 261, Erythrina 261, Teramnus 261, Dolicholus 261. On Sapindaceae: Paullinia 166. On Apocynaceae: Oncinotis 48. On Solanaceae: Solanum 313.

Type locality: St. Thomas, Africa, on Leguminosae.

Distribution: St. Thomas, Africa 248, 249, 313, 83; Paraguay 241, 313, 83; Brazil 83, 166, 184, 174, 313; Ecuador 163; Porto Rico 58, 261; Philippines 197, South Africa 48.

Citations: 348*, 64*, 83*, 261*, 48*, 230a.

Specimens: Rab. & Pazsch., Wint. Fungi europ. *3545*, Rehm, Ascom. *1348*, Union So. Afr. *9722*, Balansa *4022*, Winter's specimen from St. Thomas (type), Ule (cotype).

The specimen reported under this name by Spegazzini (241) was later recognized as *M. mimosicola* Speg.

The type specimen has hyphopodia both opposite and alternate with the alternate predominant in most colonies.

New records: On Meibomia cana. Panama, Corozal, Trail 17, Aug. 30, 1924, *98*; Ft. Sherman, Sweetwater, Oct. 6, 1924, *1240*. On Meibomia

sps. Panama, Corozal, Trail 17, Aug. 30, 1924, *85*, Las Cruces Trail, Sept. 2, 1924, *143*, *156*, *152*, France Field, Sept. 2, 1924, *191*, Paitilla Pt., Sept. 8, 1924, *370*, Frijoles, Sept. 19, 1924, *653*, Las Cruces Trail, Sept. 28, 1924, *369*, France Field, Oct. 3, 1924, *905*; Costa Rica, Peralta, July 11, 1923, *329*, July 14, 1923, *480*, Parismina Junction, July 20, 1923, *605*; Ecuador, Terecita, Oct. 29, 1924, *51*. On Fabaceae. Costa Rica, Peralta, July 12, 1923, *354*. Though this specimen has some of the setae simple, I place it here on account of its general agreement. On Bradburya virginiana, Ecuador, Barrn'nital, Nov. 17, 1924, *331*. On Wenderothia lasiocalyx (Canavalia). Ecuador, Barrn'nital, Sept. 17, 1924, *339*.

The remarks made regarding the Porto Rican specimens apply (261) essentially to these. The difference between them and my co-type specimens is so great that it appears they are not co-specific, yet the series presents such variation that it is thought advisable to report them as being of one species.

No. 79. **Meliola bicornis** Winter var. **calopogonii** Stevens, Ill. Biol. Mono. 2: 64. 1916.

On Leguminosae: Calopogonium.

Type locality: Porto Rico, Stevens *3492*.

Citations: 29, 230a.

Distribution: Porto Rico, 261, 9, 29; Costa Rica 277a.

No. 80. **Meliola bicornis** var. **amerimni** n. var.

Colony epiphyllous. Capitate hyphopodia mostly opposite. Stalk cell short, 3–4 μ; head cell globose. Mucronate hyphopodia ampulliform. Perithecial setae none. Mycelial setae 230 μ, variously branched at tip; simply dichotomous or thrice dichotomous or irregular.

Perithecia globose. Asci evanescent.

On Leguminosae: Amerimnum brownii. Panama, Paitilla Pt., Sept. 8, 1924, *355*. Fig. 12.

No. 81. **Meliola bicornis** Winter var. **tephrosiae** Beeli, Bul. Jard. Bot., Bruxelles 8: 1. 1923.

On Leguminosae: Tephrosia.

Type locality: Congo, Africa, Vanderyst *4126*.

Specimen: the type.

No. 82. **Meliola bicornis** Winter var. **millettiae** Beeli, Bul. Jard. Bot., Bruxelles 7: 94. 1920.

On Leguminosae: Millettia.

Type locality: Congo, Africa.

No. 83. **Meliola bicornis** Winter var. **robinsonii** (Sydow, H.) n. comb.

*Meliola robinsonii* Sydow, H., Philippine Jour. Sci., C. Bot. 21: 135. 1922.

On Leguminosae: Entada.

Type locality: Amboina, Reliquiae Robinsonianae *2119*.

Specimen: The type.

After an examination of the types I see no reason to regard *M. robinsonii* other than as a variety of *M. bicornis*.

No. 84. **Meliola dieffenbachiae** Stevens, Ill. Biol. Mono. 2: 62. 1916.

On Araceae: Dieffenbachia.

Type locality: Porto Rico, Stevens *8148*.

Distribution: Porto Rico 261, 29, 212; Santo Domingo 331a.

Citations: 261*, 29, 215*.

New records: On Araceae: Dieffenbachia seguine, Trinidad, Cumuto, Aug. 16, 1922, *959*; British Guiana, Kartabo, July 23, 1922, *630*. On Montrichardia arborescens. British Guiana, Kartabo, July 22, 1922, *536*, Tumatumari, July 10, 1922, *114*. *Grallomyces portoricensis* and *Helminthosporium* sp. were found overgrowing specimen *114*.

No. 85. **Meliola weigeltii** Kunze in Weigelt's Exs. No. *137*.

On Anacardiaceae: Astronium 83, 241, 184, 255. On Sapindaceae: Cupania 166. On Melastomataceae 9.

Type locality: Paraguay, on Astronium, Balansa *3791*.

Distribution: Paraguay 241, 83; Brazil 166, 184; Argentine 255.

Citation: 83*.

Specimen: Balansa *3844*.

In the original description the hyphopodia are given as alternate but Spegazzini says that they are both alternate and opposite.

No. 86. **Meliola loranthi** Gaillard, Le Gen. Mel. 105. 1892.

*Meliola amphitricha* Fr. c. *loranthi* Bornet, Org. des Meliola.

On Loranthaceae: Loranthus.

Type locality: Borneo.

Citation: 83*.

No. 87. **Meliola crenata** Winter, in Gaillard, Le Gen. Mel. 104. 1892.

On Malpighiaceae.

Type locality: Brazil, Ule *543*.

Citations: 83*, 166.

New record: On Bunchosia cornifolia, Panama, Loma Bracha, Sept. 13, 1924, *496*.

No. 88. **Meliola sapindacearum** Spegazzini, Rev. Argentina Hist. Nat. 1: n. 79, p. 29. 1891.

*Meliola crucifera* Starbäck, Ark. Bot. 5: 7. 1905.

*Meliola hessii* Stevens, Ill. Biol. Mono. 2: 59. 1916.

On Sapindaceae: 243, 83, 184, Urvillea 247, Sapindus 251, Cupania 255, Paullinia 261, Melicocca 259, 254a; on Flacourtiaceae: Dovyalis 278.

Type locality: Paraguay, on Sapindaceae.

Distribution: Paraguay 83, 251, 259, 243, 254a; Africa 278; Brazil 184; Argentine 255, 247; Porto Rico 261; Santo Domingo 331a.

Citations: 83*, 263*, 261*, 230a.

Specimens: the type, the type of *M. hessii*.

On the authority of Spegazzini who has had ample opportunity to study *M. sapindacearum*, I place *M. crucifera* and *M. hessii* here as synonyms.

New record: On Sapindus saponaria. Panama, Culebra, Oct. 2, 1924, *932*.

This remarkably beautiful Meliola was present in but very small quantity. It was, so far as seen hypophyllous, and did not readily separate from the leaf.

No. 89. **Meliola campylopoda** Sydow, H., Annal. Mycol. 24: 298. 1926.

On Verbenaceae: Vitex umbrosa.

Type locality: Piedades de San Ramon, Costa Rica *29*.

Specimen: the type.

No. 90. **Meliola longistipitata** n. sp.

Colony amphigenous but much more commonly hypophyllous, black, dense, circular, 3—40 mm. across. Mycelium pale, sub-straight, branching usually opposite. Capitate hyphopodia mostly opposite. Stalk cell long, 10—15 μ; head cell subglobose, 7—8 μ. Mucronate hyphopodia ampulliform, rare, 18 ⩽ 2 μ. Perithecial setae none. Mycelial setae diform; (a) up to 1700 μ or more, 9 μ thick at base, slender, gracefully curved, apex very variable, cut into short acute teeth, up to about 25 μ; (b) shorter, about 185—240 μ, and much more branched.

Perithecia globose, smooth, 123—140 μ, borne on a radiate subicle. Asci evanescent. Spores 4-septate, pale, 39 ⩽ 14 μ, elliptical.

Group number 3132. 3224. Figs. 13, 13a.

On Zingiberaceae: Dimerocostus uniflorus. Panama, Ft. Lorenzo trail, Oct. 10, 1924, *1186*.

This is a very unique Meliola in many ways: the very long mycelial setae are exceptional as is their variety in apical branching; the long-pedicellate, opposite hyphopodia with the small, globose head cell are characteristic; the two kinds of setae and even the spores have characteristic shape. The short-form setae may be sometimes attached to the base of the perithecium, frequently to its subicle, but there were instances where they seem definitely to arise from ordinary mycelial threads, but near the perithecium.

No. 91. **Meliola serjaniicola** Stevens & Tehon, Mycol. 18: 14. 1926.

On Sapindaceae: Serjania.

Type locality: British Guiana, Stevens *798*.

Citation: 266*.

No. 92. **Meliola odontocephala** Sydow, H., Leaf. Philippine Bot. 9: 3119. 1925.

On Sapindaceae: Harpullia.

Type locality: Sorsogon, Philippines *17012*.

Specimen: the type.

No. 93. **Meliola wismarensis** n. sp.

Colony black, 2—4 mm. in diameter. Mycelium straight. Capitate hyphopodia opposite, crowded, stalk cell short, 3—4 μ; head cell ovoid, regular, 11—14 ⩽ 8 μ. Mucronate hyphopodia few. Perithecial setae none. Mycelial setae 90—200 μ, divided at the apex into a number of short teeth. Perithecia 150—185 μ in diameter, globose, smooth. Asci 2-spored, evanescent. Spores 36—43 ⩽ 11 μ, 4-septate.

Group number 3132. 4221. Fig. 14.

On Solanaceae: Solanum sp. British Guiana, Wismar, July 14, 1922, *302*.

The only other species known on the Solanaceae having the formula 3132. is *M. fuscidula* and from this our species differs essentially in the character of setal branching and presents several other differences.

A second species of the formula 3101 was present on the same leaves in but scant quantity.

No. 94. **Meliola fuscidula** Gaillard, Le Gen. Mel. 104. 1892.

On Solanaceae: Solanum 184, "Nepanthis" 184.

Type locality: St. Catharina, Brazil, Ule *543*.

Citations: 83*, 166.

No. 95. **Meliola kauaiensis** Stevens, Bish. Mus. Bul. **19**: 39. 1925.

On Rubiaceae: Kadua.

Type locality: Kauai, Hawaiian Islands, Stevens *531*.

Citation: 264*.

No. 96. **Meliola harioti** Spegazzini, Rev. Argentina Hist. Nat., Buenos Aires **1**: no. 78. 1891.

On Bignoniaceae: 243, 84, Amphilophium 249, 255. On Leguminosae: 84, 243.

Type locality: Asuncion, Paraguay, on Bignoniaceae.

Distribution: Paraguay, 243, 8; Argentine 249, 255.

Citations: 84*, 263*.

Specimen: the type.

Spegazzini thought this intermediate between *M. furcata* and *M. bidentata*.

No. 97. **Meliola gaillardiana** Stevens, Ill. Biol. Mono. 2: 61. 1916.

On Piperaceae: Piper.

Type locality: Porto Rico, Stevens *7796*.

Citations: 261*, 230a.

No. 98. **Meliola zetekii** n. sp.

Colony hypophyllous, black, irregular in outline, 1—2 cm across. Mycelium black, crooked, irregularly branching, rather close. Spot none. Capitate hyphopodia alternate or unilateral, very irregularly placed. Stalk cell short, 3—4 μ; head cell subglobose to ovoid, often bent, 14 ⩽ 11 μ. Mucronate hyphopodia ampulliform, opposite or irregular, body short, 7 μ, neck long, narrow, 9—15 ⩽ 3 μ.

Perithecial setae none. Mycelial setae usually numerous, short, 125—185 μ. thick, 10—11 μ, intricately short branched at tip, branches 7—10 μ long, acute. Perithecia globose, smooth, 125—140 μ. Asci evanescent. Spores 4-septate, 36—39 ⩽ 11 μ.

Group number 3131. 3221. Fig. 15.

On Piperaceae: Piper paulownifolium.

Type locality: Panama, Barro Colorado Island, Sept. 19, 1924, *645*.

Named in honor of Mr. James Zetek in recognition of his services for the Barro Colorado laboratory.

This species differs from *M. patouillardi* in its shorter and more profusely branched setae. The setae rather closely resemble these of *M. gaillardiana* but the characters of the colony and mycelium are entirely different.

No. 99. **Meliola denticulata** Winter, in Gaillard, Le Gen. Mel. 98: 1892.

On Leguminosae: Centrosema 166, 83, Mimosa 184, Sclerolobium 102; on Palmae, Roystonia 261.

Type locality: Sao Francisco, Brazil, Ule *379*, on Centrosema.

Distribution: Brazil 166, 83, 184; Amazon 102; Porto Rico 261.

Citations: 83*, 230a.

No. 100. **Meliola crenatissima** Sydow, H. & P., Ann. Mycol. 14: 77. 1916.

On Leguminosae: Calopogonium, Dioclea.

Type locality: Peru, Ule *3494*.

Citations: 298*, 277a.

New record: On Erythrina rubrinervia. Panama, Mandingo Oct. 15, 1924, *1314*.

No. 101. **Meliola cristata** n. sp.

Colonies epiphyllous, irregular, abundant, 1—12 mm in diameter, often coalescing, mycelium forming a loose network of dark, crooked threads, 6 μ in diameter, branching irregularly. Capitate hyphopodia alternate, about 17—48 μ apart, head cell 6 × 7—8 μ, ovoid or pyriform, smooth, basal cell 3—5 μ long. Mucronate hyphopodia alternate or opposite, bottle-shaped, about 17—20 μ long.

Mycelial setae few, 10 ±, clustered around the base of the perithecium, about 150—230 μ long, tip crested, 20—30 μ in diameter. Ultimate branches about 5—7 μ long Perithecia 90—130 μ, smooth. Asci evanescent, ascospores 4-septate, brown, slightly constricted, 29—36 × 10—11 μ.

Group number 3131. 3221. Fig. 16.

On Leguminosae: Phaseolus sp. British Guiana, Kartabo, July 22, 1922, *614*. On Calopogonium coeruleum, Panama, Mandigo Oct. 15, 1924, *1355* (type), Summit, Sept. 12, 1924, *466*, Las Cruces trail, Sept. 28, 1924, *891*, Pedro Miguel, Sept. 9, 1924, *384*, France Field, Oct. 3, 1924, *981*, Mandingo Oct. 15, 1924, *1355*, Ecuador, Terecita, Oct. 29, 1924, *44*.

In having perithecial setae with crested tips this differs from *M. chamaecristicola* and *M. subtortuosa*, both reported on legumes.

This species is quite remarkable in its setal tip which is swollen and gives rise to from 15 to 25 short branches, each echinulate.

Several species of Meliola of the formula 3131. have been recorded on the Leguminosae, but none of them shows the characteristic crested tip of this species.

No. 102. **Meliola cydistae** n. sp.

Colonies epiphyllous, irregular, black, 1—5 mm across. Mycelium straight, dark, 7 μ thick, branching opposite. Capitate hyphopodia alternate, 18 μ apart, antrorse. Stalk cell short, 3—4 μ; head cell 18 × 11 μ, ovate. Mucronate hyphopodia ampulliform.

Perithecial setae none. Mycelial setae rigid, straight, black, 260—280 μ long, 7 μ thick throughout, tip crested with a whorl of very many short teeth, sometimes forked and each fork crested. Perithecia globose, smooth, 155 μ. Asci evanescent. Spores 4-septate, 32—35 ⩽ 11 μ.

Group number 3131. 3221. Fig. 17.

On Bignoniaceae: Cydista. Panama, Ancon, Sept. 1, 1924, *133*.

The peculiar branching of the setal tips is quite distinctive.

No. 103. **Meliola dentifera** Sydow, H & P., Ann. Mycol. **14**: 78. 1916.

On Bignoniaceae: Arrabidaea. On Cruciferae: Arabis. 9.

Type locality: Brazil, no. *3528*.

Citation: 298*.

No. 104. **Meliola anacardii** Zimmermann, Centbl. Bakt. (etc.) Abt. 2. 8: 151. 1902.

On Anacardiaceae: Anacardium.

Type locality: Java.

Distribution: Java 357; Philippines 275.

Citations: 357*, 301.

Specimen: Phil. Bur. Sci. *21899*.

While Zimmermann gives the spores as 40—44 μ and the setae as 250 μ, Sydow gives the spores as 36—40 μ and the setae as 250—400 μ with a formula therefore of 3131. 3222. Sydow refers to the striking 'conidia'.

No. 105. **Meliola geniculata** Sydow & Butler, Ann. Mycol. **9**: 381. 1911.

On Anacardiaceae: Odina 307, Spondias 107.

Type locality: India, Butler *1366*.

Distribution: India 307; South Africa 48.

Citation: 307*.

Specimens: the type, Union So. Afr. *9716*.

No. 106. **Meliola geniculata** Sydow & Butler var. **macrospora** Doidge, Trans. Roy. Soc. So. Africa **8**: 109. 1920.

On Anacardiaceae: Rhus.

Type locality: Natal, South Africa. Doidge *10879*.

Citation: 48*.

Specimen: Doidge *9716*.

No. 107. **Meliola crenato-furcata** Sydow, H. & P., Ann. Mycol. **14**: 77. 1916.

On Malpighiaceae: 298, Stigmatophyllon 331a.

Type locality: Brazil, Ule *3480*.

Distribution: Brazil 298; Santo Domingo 331a.

Citation 331a*.

No. 108. **Meliola solanicola** Gaillard, Bul. Soc. Mycol. France **8**: 184. 1892.

On Solanaceae: Solanum, Physalis 9.

Type locality: Ecuador.

Distribution: Ecuador 84; Brazil 184; Costa Rica 277a.

Citation: 84*.

No. 109. **Meliola patouillardi** Gaillard. Le Gen. Mel. 109. 1892.

On Piperaceae: Piper 83, 94. On Sapindaceae: 184. On Bignoniaceae: Bignonia 184.

Type locality: Ecuador, on Piper.

Distribution: Ecuador 83, 84; Brazil 184.

Citation: 83*.

New record: on Piper urolepidum, San José, Costa Rica, Standley and Valino No. 43332.

No. 110. **Meliola trinidadensis** Stevens & Tehon, Mycol. 18: 8. 1926.

On Leguminosae: Meibomia.

Type locality: Trinidad, Stevens *825*.

Citation: 266*.

No. 111. **Meliola diphysae** n. sp.

Colonies strictly epiphyllous, circular, black, 1—4 mm in diameter. Mycelium very crooked, cuboid, 6—7 μ thick, irregular. Capitate hyphopodia alternate. Stalk cell 3—7 μ; head cell subglobose, ovate or truncate, 11 × 9 μ. Mucronate hyphopodia ampulliform, 25 × 7 μ.

Perithecial setae none. Mycelial setae translucent, dark, 180 μ long, at apex cut to a few short teeth, 3—14 μ. Perithecia globose, rough with conic projections, 80—90 μ. Asci evanescent. Spores 4-septate, 32—36 × 11—14 μ.

Group number 3131. 3211. Fig. 18.

On Leguminosae: Diphysa robinioides. Panama, Bellavista, Oct. 7, 1924, *1124*.

The very crooked mycelium, resulting in cuboid structure in the older parts of the colony, taken together with the characteristic setae and perithecia are distinctive marks.

No. 112. **Meliola zollingeri** Gaillard, Le Gen. Mel. 105. 1892.

On Leguminosae: Desmodium.

Type locality: Java, Zollinger *70*.

Citation: 83*.

Specimen: the type.

No. 113. **Meliola zollingeri** Gaillard var. **minor** Beeli, Bul. Jard. Bot., Bruxelles, 7: 100. 1920.

On Leguminosae: Desmodium.

Type locality: Congo, Africa, Vanderyst *1604*.

Specimen: the type.

No. 114. **Meliola evanida** Gaillard, Le Gen. Mel. 102. 1892.

On Loganiaceae: Strychnos. On Burseraceae: Tetragastris 331a.

Type locality: Loango, Africa.

Distribution: Africa 83; Santo Domingo 331a.

Citation: 83*, 331a*.

Specimen: the type.

No. 115. **Meliola bignoniacearum** n. sp.

Colony hypophyllous or epiphyllous. Mycelium irregularly branching. Capitate hyphopodia alternate or unilateral, stalk cell short, 3 - 4 μ; head cell regular, globose or very slightly elongated. Mucronate hyphopodia narrow, ampulliform, beaked.

Perithecial setae none. Mycelial setae 270 - 300 μ long, dentate or very short branched at the tip, tips acute. Perithecia globose, 107 - 138 μ in diameter, smooth. Asci evanescent, 2-spored. Spores 32 - 9 - 12 μ, 4-septate.

Group number 3131. 3222. Fig. 19.

On Bignoniaceae: Phryganocydia corymbosa. Panama, Agua Clara Reservoir, Sept. 17, 1924, *570*. On Arrabidaea. British Guiana, Coverden, Aug. 8, 1922, *789*. On Tabebuia. Ecuador, Terecita, Oct. 29, 1924, *76*. On Adenocalymma. Ecuador, Terecita, Oct. 29, 1924, *77*. On Bignoniaceae indet. British Guiana, Tumatumari, July 8, 1922, *105*. Panama, Juan Diaz, Aug. 18, 1923, *1160*, Aug. 21, 1923, *1256*, Gamboa, Aug. 17, 1923, *1081*, *1110*, Corozal, Trail 17, Aug. 30, 1924, *74*, Paitilla Pt., Sept. 8, 1924, *371*, Darien, Sept. 10, 1924, *407*, Chiva-Chiva trail, Sept. 18, 1924, *608*, Mandingo, Oct. 15, 1924, *1339*, *1323*, Baillo Mona, Sept. 20, 1924, *668*, Culebra, Oct. 2, 1924, *925* (type), Ft. Sherman, Sweetwater, Oct. 6, 1924, *1059*; Ecuador, Terecita, Oct. 29, *1924*, *82*, Ambato, Nov. 14, 1924, *316*.

In general character of the setal tips this species agrees closely with *M. bidentata* recorded for the Bignoniaceae, but it differs materially from that species in smaller spores, longer setae, and particularly in the character of the mycelium and hyphopodia.

The lower surface of the host leaf of Arrabidaea is densly covered with larviform trichomes. The mycelium grows among the bases of the trichomes and, completely obscured by them, only the setae and perithecia are visible above them, giving the Meliola a very unusual appearance.

The hosts of the specimens above reported probably represent several genera. The Meliolas found on these different genera of hosts exhibit certain minor differences. For example in No. *1059* the setae are often simple while in No. *316* they are rarely toothed. There is striking difference in the mycelial characters on all other genera from that on Arrabidaea, but these differences are readily accounted for by the difference in the trichomes.

No. 116. **Meliola bidentata** Cooke, Grev. 11: 37. 1882.

On Bignoniaceae: 245, 29 f., Bignonia 32, 241, 174, 243, 83, 64, 184, 63, 313, Adenocalymma 255, Tecoma 261, Tabebuia 261, 332, 331 a, Tanaecium 249, 255, Amphilophium 313. On Malpighiaceae 184, 313. On Anacardiaceae: 101. On Rhamnaceae: Scutia 184, 313. On Lauraceae: Litsea 45, 197. On Cyclanthaceae: Carludovica 184. On Gesneriaceae: Besleria 184, 313. On Asclepiadaceae: Gonolobus 184, 313.

Type locality: South U. S. A., Florida, on Bignonia.

Distribution: South U. S. A. 32, 83, 64, 313, 332, 174, 63; Paraguay 241, 243, 84, 313; Brazil 184, 313, 245; Peru 101; Argentine 249, 255; Philippines 197, 4, 5; Porto Rico 261; Dominica 29f., 331a.

Citations: 83*, 64*, 84*, 215*.

Specimens: Rav., Fungi. Amer. *128, 330.* Ellis & Everhart, N. Amer. Fungi *1297a & b, 2545,* on Bignonia, Florida, Rab., Wint. & Pazsch., Fungi europ. *3546,* on Bignonia, Florida, Balansa *2730.* Phil. Bur. Sci. *480.*

The setal apices are variable as is also the length of the setae. (255). Rehm (184) also gives a larger measurement of the perithecia than is allowed in the type diagnosis. *M. litseae* Syd. was reported by Rehm as *M. bidentata.*

New record: On Bignoniaceae, British Guiana, Tumatumari, July 10, 1922, *105,* Rockstone, July 13, 1922, *249.*

A second species with opposite hyphopodia was present on *249,* but in too scant quantity to determine.

No. 117. **Meliola monilispora** Gaillard, Le Gen. Mel. 101. 1892.

On unknown host.

Type locality: Congo, Africa.

Citation: 83*.

Specimen: the type.

No. 118. **Meliola paulliniae** Stevens var. **dentata** n. var.

This variety agrees with the type material from Porto Rico except that the setal tips are toothed while these of the Porto Rico specimens are always simple.

On Sapindaceae: Paullinia sp. Panama, Las Cruces Trail, Sept. 28, 1924, *878, 894,* Corozal, trail 17, Aug. 30, 1924, *97,* Summit, Sept. 6, 1924, *346,* Tumba Muerta, Sept. 27, 1924, *852,* Culebra, Oct. 2, 1924, *953,* Gamboa, Aug. 16, 1923, *1080,* Las Cruces Trail, Sept. 2, 1924, *168.* On Paullinia cururu, Panama, Las Cruces Trail, Sept. 2, 1924, *148, 158.* On Serjania sp. Panama, Brazos Brook Reservoir, Sept. 9, 1924, *724;* Costa Rica, Siquirres, July 31, 1923, *703.* On unknown host, Panama, Tumba Muerta, Oct. 12, 1924, *1224;* Costa Rica, *593c.*

No. 119. **Meliola galipeae** Sydow, H. & P., Ann. Mycol. 14: 77. 1916.

On Rutaceae: Galipea.

Type locality: Brazil, Ule *3433.*

Specimens: the type.

No. 120. **Meliola evodiae** Patouillard, Rev. Mycol. 10: 139. 1888.

On Rutaceae: Evodia.

Type locality: Samoa.

Citations: 83*, 154*.

Specimen: the type.

No. 121. **Meliola citricola** Sydow, H. & P., Ann. Mycol. 15: 183. 1917.

On Rutaceae: Citrus.

Type locality: Luzon, Philippines, Ramos, Bur. Sci. *23747.*

Distribution: Philippines 301, 275, 303.

Citation: 308.

Specimen: the type.

This is not *Meliola citricola* K. Hara (Jour. Agr. Soc. Shidzuoka Prefecture 1919), which appears to belong to the Capnodiaceae (275).

No. 122. **Meliola duggenae** n. sp.

Colonies amphigenous, black, more abundant on upper surface but smaller, 2—3 mm., below 3—10 mm. Mycelium slightly sinuous, irregular in arrangement, thin, 5 μ. Capitate hyphopodia alternate, antrorse, about 36 μ apart. Stalk cell short, 3—4 μ; head cell ovate, 11—7 μ. Mucronate hyphopodia ampulliform, 14—18 × 7 μ.

Perithecial setae none. Mycelial setae numerous, 200—280 μ, forked at the tip, teeth usually two, sometimes three, branches usually about 7—11 μ long, sometimes 25 μ. Perithecia globose, smooth, 100—125 μ. Asci ovanoscent. Spores 4-septate, 25—28 × 11 μ.

Group number 3131. 2221 or 31½1. 2221. Fig. 20.

On Rubiaceae: Duggena (Gonzalagunia). Panama, Ft. Lorenzo trail, Oct. 10, 1924, *1159*.

The setae, quite constant in length and of quite characteristic branching, are distinctive.

No. 123. **Meliola duggenae** Stevens var. **panamensis** n. var.

On Rubiaceae: Duggena panamensis. Panama, Chagres mouth, Aug. 23, 1923, *1314*. On Duggena rudis. Panama, Ancon Hill, Sept. 24, 1924, *701*. The last specimen listed is heavily parasitized.

This differs from the type in smaller colonies, and in that the setae are usually simple, but rarely are branched precisely as are those of the type.

No. 124. **Meliola opaca** Sydow, H. & P., Leaf. Philippine Bot. **6**: 1924. 1913.

On Anacardiaceae: Dracontomelon.

Type locality: Mindanao, Philippines *13457*.

Citation: 4.

Specimen: the type.

Citation: 10a*.

No. 125. **Meliola multiseta** Beeli, Bul. Soc. Roy. Bot. Belg. **60**: 99. 1927.

On Anacardiaceae.

Group number 3131. 4224.

Specimen: Vanderyst *9872*, Congo.

The mycelium is crooked. Head cells conic, but often curved, tips coarsely branched then with many fine branches.

No. 126. **Meliola helleri** Earle, Bul. N. Y. Bot. Gard. **3**: 307. 1905.

On Myrtaceae: Eugenia 261, Myrcia 261.

Type locality: Porto Rico, Heller *6251*.

Specimen: Heller *6251* (co-type).

Citation: 230a.

No. 127. **Meliola sapindi** Stevens n. sp.

Colonies amphigenous, more abundant and larger below, densely black, above sub-circular, below circular or elongate especially along the veins. Mycelium thick, 8—11 μ, black. Spot pale, equalling the colony. Capitate hyphopodia alternate, antrorse, about 18 μ. Stalk cell short, 3—4 μ; head cell irregular, cylindrical, clavate, angular or bent, 28—32 × 14—21 μ. Mucronate hyphopodia ampulliform.

Perithecial setae none. Mycelial setae 380—670 × 11 μ, with several short teeth at the apex, —11 μ. Perithecia globose, smooth, 170—185 μ. Asci evanescent. Spores 4-septate, 38—47 × 18 μ.

Group number 3131. 4223. Fig. 21.

On Sapindaceae: Sapindus saponaria, on leaves and petioles. Panama, Culebra, Oct. 2, 1924, *932*.

Accompanied by *Meliola sapindacearum*.

While this species resembles *Meliola furcillata* in formula and especially in setal tips it differs in setal length and very markedly in the hyphopodia which in *M. furcillata* are regular, but which here are very irregular.

No. 128. **Meliola protii** n. sp.

Colonies amphigenous, scattered, few, thin, 5—10 mm. across. Mycelium black, 7—8 μ thick, very crooked with short bends. Capitate hyphopodia alternate, irregularly spaced, 43—90 μ. Stalk cell short, 3—4 μ; head cell irregularly cylindrical, 18—10 μ, bent or angled. Mucronate hyphopodia ampulliform, 28—32 × 7—9 μ, irregular.

Perithecial setae none. Mycelial setae 380 μ long, 11 μ thick, apices dentate with a few short teeth. Perithecia globose, smooth, 135—155 μ, on a radiate disk. Asci evanescent. Spores 4-septate, 47—54 × 18—22 μ.

Group number 3131. 5322. Fig. 22.

On Burseraceae: Protium panamense. Panama, Agua Clara reservoir, Sept. 17, 1924, *583*.

The mycelium, taken together with the capitate hyphopodia and setae are characteristic.

No. 129. **Meliola burseracearum** n. sp.

Colony hypophyllous, diffuse, indefinite —2 cm. in diameter. Mycelium sub-straight, branching sub-rectangular.

Capitate hyphopodia alternate, cylindric to irregular, irregularly spaced, often distant. Stalk cell short, 3—4 μ; head cell 25—11 μ. Mucronate hyphopodia ampulliform.

Perithecial setae none. Mycelial setae numerous, 300—450 μ, crooked, once or twice forked, pr. br. —32 μ or merely irregularly toothed. Perithecia globose, smooth, —200 μ. Asci evanescent. Spores 4-septate, 43—46 × 18 μ.

Group number 3131. 4222. Fig. 23.

On Burseraceae: Tetragastris panamensis. Panama, Tapia, Aug. 15, 1923, *1029*, *1050*, *1052*, Fort Randolph, 100 feet hill trail, Sept. 23, 1924, *773*.

No. 130. **Meliola soroceae** Spegazzini, An. Mus. Nac., Buenos Aires **23**: n. 1343. 1912.
On Moraceae: Sorocea.
Type locality: Argentine.
Citation: 255.

No. 131. **Meliola andina** Gaillard, Bul. Soc. Myc. d. Fr. **8**: 185. 1892.
On unknown host.
Type locality: Ecuador.
Citations: 84*, 163.

No. 132: **Meliola imperatae** Sydow, H. & P., Ann. Mycol. **15**: 186. 1917.
On Gramineae: Imperata.
Type locality: Luzon, Philippines, Bur. Sci. *23790*, Ramos.
Specimen: Phil. Bur. Sci. *24069*.

No. 133. **Meliola palmicola** Winter var. **copernicíae** Spegazzini, An. Mus. Nac., Buenos Aires **32**: 384. 1924.
*Meliola furcata* Léveillé var. *copernicíae* Spegazzini, Fung. Paraguay, n. 152.
On Palmae: Copernicia.
Type locality: Paraguay.
Distribution: Paraguay; Cuba.

No. 134. **Meliola odontochaeta** Sydow, Philippine Jour. Sci., C. Bot., **21**: 136. 1922.
On Asclepiadaceae: Dischidia.
Type locality: Amboina, Reliquiae Robinsonianae *2187*.

No. 135. **Meliola stemonae** Sydow, H., Philippine Jour. Sci., C. Bot., **21**: 134. 1922.
On Stemoniaceae: Stemona.
Type locality: Amboina, Reliquiae Robinsonianae *2230*.
Specimens: the type.

## Conspectus of Group 5, Meliola.

Ms. uncinate or dentate
  31⅓1. 3221, s. 150—300 μ, obtuse or dialated and toothed or uncinate, hc. globose, on Leguminosae . . . . . *heterocephala* No. 136.
Ms. simple or dentate
  Ch. alternate or opposite
    S. obtuse or dentate
      31⅓3. 2121, s. obtuse, 100—150 μ, rarely 2—3 dentate, hc. clavate, on Leguminosae . . . . . *mimosicola* No. 137.
      31⅓3. 3223, s. 500—750 μ, obtuse or 2—4 dentate, 2—15 μ, hc. globose, subglobose, on Leguminosae . . . . . *teramni* No. 138.

$31\frac{1}{3}3$. 2212, myc. scant, s. 230—310 μ, obtuse or 2—4 dentate, 2—3 μ, hc. globose, ovate, on Leguminosae . . . . *schizolobii* No. 139.

$31\frac{1}{3}3$. 3212, s. —470 μ, obtuse, hc. oblong to irregular, on Leguminosae . . . . *tounateae* No. 140.

$31\frac{1}{3}3$. 4221, s. 185—230 μ, obtuse, irregularly branched, rarely simple, ch. mainly alternate, hc. cylindric or elliptic, on Sapindaceae . . . . . *variaseta* No. 141.

$31\frac{1}{3}3$. 2223, s. —620 μ, simple or short toothed, on Sapindaceae . . . . . *nephelii* No. 142.

S. acute or dentate

$31\frac{1}{3}3$. 3121, s. 270 μ, acute or 2-fid, hc. globose or cylindric, on Leguminosae *perexigua* No. 143.

$31\frac{1}{3}3$. 4222, s. 310 μ, acute or dentate, hc. sub-globose or irregular, on Leguminosae . . . . . *bicornis* var. *galactiae* No. 144.

Ch. opposite

$31\frac{1}{3}2$. 4231, s. 200—280 μ, obtuse or 2—3 dentate, 10 μ, hc. globose, on Opiliaceae . . . . . *opiliae* No. 145.

$31\frac{1}{3}2$. 3222, s. 300—400 μ, acute or with 2—3 short teeth, hc. globose, oblong, on Sapindaceae . . . . . *capensis* No. 146.

Ch. alternate

S. obtuse

$31\frac{1}{3}1$. 2221, s. 170—250 μ, obtuse or dialated or dentate, col. dense, hc. globose, on Rubiaceae . . . . . *anceps* No. 147.

$31\frac{1}{3}1$. 3221, col. loose, s. 170—250 μ, obtuse or dialated or divided, —25 μ, hc. globose, ovate, on Rubiaceae *anceps* var. *mussaendae* No. 148.

$31\frac{1}{3}1$. 3221, s. 140—250 μ, obtuse, hc. globose to oval, on Rubiaceae . . . . *makilingiana* No. 149.

$31\frac{1}{3}1$. 2221, on Rubiaceae . . *duggenae* var. *panamensis* No. 123.

$31\frac{1}{3}1$. 5222, s. 500 μ, obtuse, rarely 2 dentate, hc. cylindric or globose, on Liliaceae . . . . . *smilacis* No. 150.

$31\frac{1}{3}1$. 3221, s. 170—200 μ, crenulate, hc. globose, on Anacardiaceae . . . . . *tapiriricola* No. 151.

$31\frac{1}{3}1$. 3122, s. 340—470 μ, obtuse or crenate or dentate, hc. globose, on Euphorbiaceae . . . . . *alchorneae* No. 152.

$31\frac{1}{3}1$. 5334, s. 1000—1500 μ, obtuse or toothed, hc. globose, on Monimiaceae . *megalochaeta* No. 153.

$31\frac{1}{3}1$. 2222, s. 325—375 μ, obtuse, crenate or dentate, hc. globose, on Rhamnaceae . . . . . *rhamnicola* No. 154.

$31\frac{1}{3}1$. 4211, s. —300 μ, simple or minutely dentate, hc. oblong, on Asclepiadaceae . *hoyae* No. 155.

$31\frac{1}{3}1$. 5323, s. 350—700 μ, obtuse or 2—4 dentate, 12 μ, hc. ovoid to oblong, on Lauraceae . . . . . *litseae* No. 156.

$31\frac{1}{3}1$. 4233, s. 300—700 μ, obtuse or 2—3 dentate, —10 μ, hc. cylindric, on Melastomataceae . . . . . *affinis* No. 157.

$31\frac{1}{3}1$. 3222, s. 250—350 μ, simple and obtuse or very irregularly dentate, hc. globose to ovate or angled, often bent, on Leguminosae . . . . . *lonchocarpicola* No. 158.

$31\frac{1}{3}1$. 4323, colonies 1—3 mm., dense, ms. few, obtuse or short toothed, 390—800 μ, hc. oblong, on Theaceae . . . . . *theacearum* No. 159.

$31\frac{1}{3}1$. 2211, s. 170—280 μ, obtuse or with short teeth, hc. globose to irregular, on Verbenaceae . . . . . *aegiphilae* No. 160.

$31\frac{1}{3}1$. 2221, s. 230—260 μ, obtuse or dentate, hc. ovoid or triangular, mycelium sinuous, on Marantaceae. . . . *marantacearum* No. 161.

$31\frac{1}{3}1$. 4222, colony large, s. 270—350 μ, obtuse or 2 dentate, 2—5 μ, hc. lobed, on Palmae . . . . . *amadelpha* No. 162.

$31\frac{1}{3}1$. 4222, mycelium substraight, s. 200—375 μ, obtuse or 2—3 dentate, 8—12 μ, hc. cylindrical or irregular, on Marantaceae . . . . . *heterotricha* No. 163.

$31\frac{1}{3}1$. 4232, s. 275—460 μ, obtuse or 2—4 dentate, 3 μ, hc. cylindric to lobed, on Anonaceae . . . . . *varicuspis* No. 164.

$31\frac{1}{3}1$. 5232, s. 600—700 μ, obtuse, usually 2—5 dentate, hc. cylindric to irregular, on Anacardiaceae . . . . *mangiferae* No. 165.

$31\frac{1}{3}1$. 6331, s. 300 μ, obtuse or with short obtuse, irregular branches, crustose, hc. pyriform, on Liliaceae . . . . . *dracaenae* No. 166.

$31\frac{1}{3}1$. 3221, s. 200—300 μ, obtuse, rarely short branched, finely dentate, 1—2 μ, hc. very irregular, often curved, on Leguminosae . . . . . *polyodonta* No. 167.

$31\frac{1}{3}1$. 5221, s. 200—300 μ, simple or short toothed, 57 μ, hc. curved, on Malpighiaceae *xenoderma* No. 168.

S. acute

$31\frac{1}{3}1$. 3221, s. 200—250 μ, acute or 2 to 3 dentate, hc. few, rudimentary, on Sapindaceae . . . . . *commixta* No. 169.

$31\frac{1}{3}1$. 533–, s. acute or bidentate, hc. globose, on Liliaceae . . . . . *subdentata* No. 170.

$31\frac{1}{3}1$. 4211, s. 275 μ, acute or rarely bifid, hc. globose-ovate, on Gramineae . . . *stenotaphri* No. 171.

$31\frac{1}{3}1$. 4222, colonies thin, s. 330—400 μ, acute or 2—3 dentate, hc. ovoid, on Sapindaceae . . . . . *furcillata* No. 172.

$31\frac{1}{3}1$. 5332, colonies dense, black, s. 300—350 μ, acute or 2—3 dentate, 5—8 μ, hc. ovoid, on Meliaceae . . . . . *banahaensis* No. 173.

$31\frac{1}{3}1$. 4223, s. 260—800 μ, acute or dentate, —7 μ, hc. elliptical, on Musaceae *heliconiae* No. 174.

$31\frac{1}{3}1$. 5223, s. 700 μ, acute or rarely toothed, 2—7 μ, hc. cylindric, on Magnoliaceae . . . . . *magnoliae* No. 175.

$31\frac{1}{3}1$. 5332, col. 1—15 mm., s. 400 μ, acute or 2—3 dentate, hc. globose, ovoid or lobed, on Palmae . . . . . *palmicola* No. 176.

$31\frac{1}{3}1$. 322–, s. acute or rarely dentate, hc. globose or variable, on Leguminosae *bicornis* var. *heterotricha* No. 177.

$31\frac{1}{3}1$. 6332, s. 500 μ, acute or slightly dentate, hc. elongate, entire, on Leguminosae . . . . . *castanha* No. 178.

$31\frac{1}{3}1$. 3221, s. 180—250 μ, hc. ovoid, on Araliaceae . . . . . *kusanoi* No. 179.

$31\frac{1}{3}1$. 5333, ms. 600—700 μ, hc. clavate to irregular, on Solanaceae . . . . . *cestricola* No. 180.

$31\frac{1}{3}1$. 5233, s. 600—850 μ, acute or dentate, hc. irregular, on Polygonaceae . . *panamensis* No. 181.

$31\frac{1}{3}1$. 5332, s. 300—350 μ, acute or 2—3 dentate, 5—6 μ, hc. lobed, very irregular, distant, on Palmae . . . . . *livistonae* No. 182.

No. 136. **Meliola heterocephala** Sydow, H. & P., Annal. Mycol. **14**: 356. 1916.

On Leguminosae: Desmodium.

Type locality: Philippines, Baker *3986*.

Citations: 299*, 301.

Specimens: Baker, Fungi Mal. 251. Phil. Bur. Sci. *24046*.

No. 137. **Meliola mimosicola** Spegazzini, Anal. Mus. Nac., Buenos Aires, **32**: 383. 1924.

*Meliola indibunda* Spegazzini, Anal. Soc. Cien. Argent. no. 178. 1883. *pro parte.*

On Leguminosae: Mimosa.

Type locality: Paraguay, Balansa *3503*.

This was earlier reported by Spegazzini as *M. bicornis.*

No. 138. **Meliola teramni** Sydow, H. & P., Annal. Mycol. **15**: 193. 1917.

*Meliola nigra rufescens* Sacc. var. *teramni* Sacc., Atti Acad. Ven.-Trent.-Istr., **10**: 60. 1917.

*Meliola teramnae* Yates, Philippine Jour. Sci., C. Bot., **12**: 369. 1918.

On Leguminosae: Teramnus.

Type locality: Philippines, Baker *2846*.

Citations: 352, 273.

Specimens: Baker, Fungi Mal. *304*, *553*. Phil. Bur. Sci. *25344*.

No. 139. **Meliola schizolobii** Sydow, H. & P., Annal. Mycol. **14**: 76. 1916.

On Leguminosae: Schizolobium.

Type locality: Brazil, Ule *3495*.

Specimen: the type.

The type specimen shows the hyphopodia to be both opposite and alternate.

No. 140. **Meliola tounatoae n. sp.**

Colony indefinite, thin, amphigenous. Mycelium straight. Capitate hyphopodia mostly opposite, close. Stalk cell short, 3—4 μ; head cell oblong, slightly irregular or curved. Mucronate hyphopodia ampulliform. Perithecial setae none. Mycelial setae obtuse and simple, or dentate, —470 μ. Perithecia globose, from an alveolar disk, 90—100 μ in diameter. Asci evanescent. Spores 36—39 × 14 μ.

Group number 31⅓3. 3212. Fig. 24.

On Leguminosae: Tounatea. Panama, Baille Mona, Sept. 20, 1924, *675*.

No. 141. **Meliola variaseta n. sp.**

Colonies hypophyllous, black, 1—4 cm. in diameter. Mycelium very crooked, thin, 5—6 μ. Spot pale, visible from opposite side of leaf. Capitate hyphopodia mostly alternate, irregularly spaced, irregular in position. Stalk cell short, 3—4 μ; head cell cylindrical to elliptical, regular, but sometimes bent, 11—5 μ. Mucronate hyphopodia ampulliform.

Perithecial setae none. Mycelial setae 185—230 μ, most common near the perithecia, irregularly branched, rarely simple, obtuse. Perithecia

globose, smooth, 170—185 μ. Asci evanescent. Spores 1-septate, irregular, 39—43 × 14 μ.

Group number 31¼1. 4221. Fig. 25.

On Sapindaceae indet. Panama, Chagres, 2—3 miles of mouth, Aug. 23, 1923, *1299*.

The thin, very crooked mycelium and the very large colony are characteristic.

No. 142. **Meliola nephelii** Saccardo, Bul. Orto Bot. Univ. Napoli 6: 42. 1921.

On Sapindaceae: Nephelium.

Type locality: Singapore.

Specimens. Baker, Fungi Mal. 454.

The perithecia are borne on beautiful disks that are radiate when old. Very few setae are present and these arise from the disks. They are simple or short toothed at the apex and up to 620 μ long.

A second species with opposite, conic hyphopodia, is present on some of the leaves, but without perithecia.

No. 143. **Meliola perexigua** Gaillard, Le Gen. Mel. 98. 1892.

On Leguminosae: Bauhinia 313. On Phytoloccaceae: Petiveria 309.

Type locality: Congo, Africa.

Distribution: Africa 83; Brazil 313; Porto Rico 309.

Citations: 83*, 230a.

Specimen: the type.

No. 144. **Meliola bicornis** Winter var. **galactiae** Stevens, Ill. Biol. Mono. 2: 65. 1916.

On Leguminosae: Galactia, Stevens *7856*.

Type locality: Porto Rico.

Citation: 230a.

No. 145. **Meliola opiliae** Sydow, H., Annal. Mycol. 11: 327. 1913.

On Opiliaceae: Opilia.

Type locality: South East Indies, Coimbatore, Fischer 6.

No. 146. **Meliola capensis** (Kalchbrenner & Cooke) Theissen, Annal. Mycol. 10: 20. 1912.

*Asterina capensis* Kalch. & Cooke, Grev. 9: 32. 1880.

On Sapindaceae: Hippobromus 316, 127, 45.

Type locality: South Africa, *1328*.

Citations: 45*, 317, 54*, 56*.

Specimen: Union So. Afr. *2499*.

No. 147. **Meliola anceps** Sydow, H. & P., Annal. Mycol. 14: 76. 1916.

On Rubiaceae: Uncaria.

Type locality: Brazil *3441*.

Specimen: the type.

No. 148. **Meliola anceps** Sydow, H. & P., var. **mussaendae** (Sydow, H. & P.) n. comb.

*Meliola mussaendae* Sydow, H. & P., Annal. Mycol. 15: 190. 1917.

On Rubiaceae: Mussaenda.

Type locality: Luzon, Philippines, Bur. Sci. *24057*, Ramos.

Specimen: the type.

New records: On Rubiaceae: Posoqueria latifolia. Costa Rica, Sabario, Aug. 8, 1923, *793*, Port Limon, Aug. 9, 1923, *838*.

This variety is very close to *M. anceps*, but differs in colony character.

No. 149. **Meliola makilingiana** Sydow, H. & P., Annal. Mycol. **15**: 188. 1917.

Given as *M. maquilingiana* in the Sylloge Fungorum Vol. 24.

On Rubiaceae: Psychotria.

Type locality: Laguna, Philippines, Baker *2146*.

Specimens: the type, Baker, Fungi Mal., Phil. Bur. Sci. *550*.

Both in the type specimen and in no. *550* the setae are often forked, divided into two short simple obtuse branches.

No. 150. **Meliola smilacis** Stevens, Ill. Biol. Mono. **2**: 56. 1916.

On Liliaceae: Smilax.

Type locality: Porto Rico, Stevens *5261*.

Citation: 230a.

No. 151. **Meliola tapiriricola** Stevens & Tehon, Mycol. **18**: 13. 1926.

On Anacardiaceae: Tapirira.

Type locality: British Guiana, Stevens *283*.

No. 152. **Meliola alchorneae** Stevens & Tehon, Mycol. **18**: 12. 1926.

On Euphorbiaceae: Alchornea.

Type locality: British Guiana, Stevens *198*.

Citation: 266*.

No. 153. **Meliola megalochaeta** Sydow, H., Philippine Jour. Sci., C. Bot., **21**: 135. 1922.

On Monimiaceae: Kibara.

Type locality: Amboina, Rel. Robinson *2078*.

Specimen: Robinson *2078*.

No. 154. **Meliola rhamnicola** Stevens & Tehon, Mycol. **18**: 14. 1926.

On Rhamnaceae: Gouania.

Type locality: British Guiana, Stevens *203*.

Citation: 266*.

No. 155. **Meliola hoyae** Saccardo, Atti Accad. Veneto-Trentino-Istriana, Ser. 3, **10**: 60. 1919.

On Asclepiadaceae: Hoya.

Type locality: Los Baños, Philippines.

Specimen: the type.

The type specimen kindly loaned to me by Dr. Trotter shows the setae either simple or minutely dentate and the hyphopodia alternate, oblong; setal tips obtuse.

No. 156. **Meliola litseae** Sydow, H. & P., Annal. Mycol. **15**: 187. 1917.

*Meliola litseae* Yates, Philippine Jour. Sci., C. Bot., **12**: 366. 1918.

On Lauraceae: Litsea.

Type locality: Los Baños, Philippines, Baker *480*.
Citation: 352, 354, 273.
Specimens: Baker, Fungi Mal. *549*, Phil. Bur. Sci. *25845*.
This was previously reported by Rehm (197) as *M. bidentata* Cooke.

No. 157. **Meliola affinis** Sydow, H. & P., Leaf. Philippine Bot. 6: 1921. 1913.
On Melastomataceae: Memecylon.
Type locality: Mindanao, Philippines *14114*.
Citations: 4, 352.
Specimen: Phil. Bur. Sci. *25699*.

No. 158. **Meliola lonchocarpicola** n. sp.
Colonies epiphyllous, thin, 1—5 mm. in diameter. Mycelium straight, 6—7 μ thick, translucent, regular, branching mostly opposite. Capitate hyphopodia alternate, distant, 36—90 + μ, stalk cell short, 3—4 μ; head cell subglobose to ovate to irregular or angled, often bent, 18 ⩽ 14 μ. Mucronate hyphopodia ampulliform.
Perithecial setae none. Mycelial setae 250—355 μ, dentation very irregular, sometimes simple, obtuse or with many short teeth, others with two branches. Perithecia globose, smooth, 140—155 μ in diameter, on a radiate subicle. Asci evanescent. Spores 4-septate, 36 ⩽ 14 μ.
Group number 31⅓1. 3222. Fig. 26.
On Leguminosae: Lonchocarpus. Panama, Ft. Lorenzo Trail, Oct. 10, 1924, *1180*, *1172*, Brazos Brook Reservoir, Sept. 22, 1924, *721*.
The colony characters, setal tips and capitate hyphopodia are very characteristic.

No. 159. **Meliola theaceārum** n. sp.
Colonies amphigenous, mainly epiphyllous, 1—3 mm. in diameter or coalescing to cover the leaf, dense to crustose in old regions, loose at edge of colony. Mycelium nearly straight, black, 7—11 μ thick. Spot none. Capitate hyphopodia alternate, about 18 μ apart. Stalk cell short, 3—4 μ; head cell oblong, 14 ⩽ 10 μ. Mucronate hyphopodia ampulliform, abundant.
Perithecial setae none. Mycelial setae very few, simple, obtuse or short toothed, 390—800 μ long. Perithecia globose, rough, on radiate disks, small, 125 μ. Asci 2–4-spored, evanescent. Spores 4-septate, 42—46 ⩽ 18—22 μ, middle cell larger.
Group number 31⅓1. 4323.
On Theaceae: Schima. India, Penang Govt. Hill, Leg. E. J. Butler, July 1918, *1982*.
Citation: 264a.
This is of special interest as the only true Meliola recorded upon any member of the Theaceae. It, in a general key, would fall near *M. litseae* from which it is separated by the nature of the setal branches.
Citation: 264a*.

No. 160. **Meliola aegiphilae** n. sp.

Colony amphigenous, mostly epiphyllous, 1—5 mm. in diameter. Mycelium crooked, dense. Spot none. Capitate hyphopodia alternate, head cell globose to ovoid or slightly irregular. Stalk cell short, 3—4 μ. Mucronate hyphopodia ampulliform.

Perithecial setae none. Mycelial setae 170—280 μ long, simple and obtuse or with short obtuse teeth, or short obtuse branches, pale. Perithecia globose, 80—90 μ, smooth. Asci evanescent. Spores 4-septate, 25—30 ⩽ 11 μ.

Group number $31\frac{1}{3}1.$ 2211. Fig. 27.

On Verbenaceae: Aegiphila. British Guiana, Tumatumari, July 12, 1922, *221*.

No. 161. **Meliola marantacearum** n. sp.

Colonies hypophyllous, thin, circular, 1—5 cm. in diameter. Mycelium sinuous, thin, 5.4 μ. Capitate hyphopodia alternate, distant, 36—50 or sometimes 130 μ. Stalk cell short, 3—4 μ, or long, 11 μ; head cell variable, obovate, narrowly elliptical, cylindrical, or triangular, 15—18 ⩽ 7—8 μ, direction various. Mucronate hyphopodia ampulliform, long and narrow 14—18 ⩽ 7 μ.

Perithecial setae none. Mycelial setae 230—260 μ long, simple or with short-blunt branches at tip, more abundant near the perithecia. Perithecia globose, smooth, 90—110 μ. Asci evanescent. Spores 4-septate, 25—29 ⩽ 11—13 μ.

Group number $31\frac{1}{3}1.$ 2221. Fig. 28.

On Marantaceae: Calathea insignis. Costa Rica, Columbiana, July 19, 1923, *569*, *587*, Siquirres, July 31, 1923, *693* (type).

The colonies are in some instances (no. 587) heavily overgrown by a parasite that renders the whole colony yellow.

No. 162. **Meliola amadelpha** Sydow, H., Leaf. Philippine Bot. **9**: 3114. 1925.

On Palmae.

Type locality: Sorsogon, Philippines *16689*.

Specimen: the type.

No. 163. **Meliola heterotricha** Sydow, H. & P., Leafl. Philippine Bot. **6**: 1923. 1913.

On Marantaceae: Donax.

Type locality: Mindanao, Philippines *13541*.

Citation: 4.

Specimen: Phil. Bur. Sci. *13541*.

No. 164. **Meliola varicuspis** Stevens & Tehon, Mycol. **18**: 7. 1926.

On Anonaceae.

Type locality: Costa Rica, Stevens *132*.

Citation: 266*.

No. 165. **Meliola mangiferae** Earle, Bul. N. Y. Bot. Gard. **3**: 307. 1905.

On Anacardiaceae: Mangifera.

Type locality: Jamaica, Earle *272*.

Distribution: Porto Rico 58, 261; Jamaica 58; India 307; Philippines 293, 5, 4, 301, 86, 75, 354; Singapore 225; Straits Settlements 7; Borneo 353; Amboina 271; Santo Domingo 331a.

Citations: 271, 267, 215, 230a.

Specimens: Heller *6393*, type. Syd., Fungi Exot. Exs. *250*, *376*, Baker, Fungi Mal. *452*, Phil. Bur. Sci. *22698*.

New records: On Anacardiaceae: Anacardium occidentale. Costa Rica, Guapiles, July 18, 1923, *506*; Panama, Gatun, Aug. 24, 1923, *1247*. The agreement between these specimens and these on the Mango is close, though there are slight differences: the capitate hyphopodia are slightly more irregular and the mycelial setae are often more deeply forked. On Mangifera indica. Panama, Tumba Muerta, Oct. 12, 1924, *1233*, Mandingo, Oct. 15, 1924, *1330*, *1344*, Las Cruces trail, Sept. 2, 1924, *165*, Sept. 28, 1924, *883*, Gatun, Oct. 11, 1924, *1212*, Brazos Brook reservoir, Sept. 22, 1924, *729*, *765*, Culebra, Oct. 2, 1924, *915*, Ft. Sherman, Sweetwater, Oct. 6, 1924, *1073*, Corozal, Trail 17, Aug. 30, 1924, *109*, Miraflores, Sept. 15, 1924, *507*, France Field, Sept. 2, 1924, *223*; British Guiana, Demerrara-Essequibo R. R., July 15, 1922, *366*; Trinidad, St. Augustine, Aug. 13, 1922, *844*, *835*.

No. 166. **Meliola dracaenae** Stevens, Bish. Mus. Bul. **19**: 40. 1925.
On Liliaceae: Dracaena.
Type locality: Kauai, Hawaiian Islands, Stevens *419*.
Citation: 264*.

No. 167. **Meliola polyodonta** Sydow, H., Annal. Mycol. **24**: 306. 1926.
On Leguminosae.
Type locality: San Pedro de San Ramon, Costa Rica *385*.
Specimen: the type.

No. 168. **Meliola xenoderma** Sydow, H., Annal. Mycol. **24**: 311. 1926.
On Malpighiaceae: Malpighia glabra.
Type locality: San Pedro de San Ramon, Costa Rica *184*.
Specimen: the type.

No. 169. **Meliola commixta** Sydow, H., Leaf. Philippine Bot. 9: 3117. 1925.
On Sapindaceae: Nephelium.
Type locality: Sorsogon, Philippines *15686*.
Specimen: the type.

No. 170. **Meliola subdentata** Patouillard, Jour. Bot. (Paris) **11**: 347. 1897.
On Liliaceae: Dracaena.
Type locality: Tonkin, China.
Citation: 267.

No. 171. **Meliola stenotaphri** Stevens, Ill. Biol. Mono. **2**: 41. 1916.
On Gramineae: Stenotaphrum.
Type locality: Porto Rico, Stevens *4304*.
Citations: 261*, 230a.

No. 172. **Meliola furcillata** Doidge, Trans. Roy. Soc. So. Africa 5: 738. 1917.

On Sapindaceae: Schmidelia.

Type locality: Natal, South Africa *1573*.

Citations: 45*, 51.

Specimen: the type.

This was originally reported by error as on *Maesa*.

No. 173. **Meliola banahaensis** Yates, Philippine Jour. Sci., C. Bot. 13: 364. 1918.

On Meliaceae: Dysoxylum.

Type locality: Philippines, Bur. Sci. *28011*, Ocampo.

Specimen: the type.

No. 174. **Meliola heliconiae** n. sp.

Colony hypophyllous, black, 8—12 cm. in diameter. Mycelium slightly crooked, often straight with the leaf veins, branching usually opposite. Capitate hyphopodia alternate, often very far apart. Stalk cell short, 3—4 μ; head cell elliptical, mostly regular, 14 ⩽ 7 μ. Mucronate hyphopodia ampulliform.

Perithecial setae none. Mycelial setae long, slightly curved, not abundant, 260—800 μ, simple and acute at apex or with a few short teeth. Perithecia globose, smooth, 185 μ in diameter. Asci evanescent. Spores 4-septate, 43 ⩽ 14 μ.

Group number: 31½1, 4223. Fig. 29.

On Musaceae: Heliconia sp. Panama, Barro Colorado, Aug. 26, 1924, *20* (type), Aug. 29, 1924, *44*, Sept. 19, 1924, *633*, Brazos Brook Reservoir, Sept. 22, 1924, *708*.

The colonies in *708* were heavily parasitized and it is possible that this is a distinct species.

No. 175. **Meliola magnoliae** Stevens, Ill. Biol. Mono. 2:55. 1916.

On Magnoliaceae: Magnolia.

Type locality: Porto Rico, Stevens *4738*.

Distribution: Porto Rico 261; Florida 254.

Citations: 261*, 230a.

Specimens: Rav. Fungi Amer. *83* sub *Meliola amphitricha*.

No. 176. **Meliola palmicola** Winter, Hedw. 26: 31. 1887.

*Meliola contigua* Karsten & Roumeguère, Rev. Mycol. 12: 77. 1890.

On Palmae 155, 264, Sabal 351, 83, 64, 174, 332, Phoenix 307, 48, 8, Serenoa 61, Thrinax 9. On 'Palmieri acaulis' 128.

Type locality: Florida, U. S. A.

Distribution: Tonkin 155, 83, 207, 128; Southern U. S. 64, 332, 254, 351, 61; India 307, 8; South Africa 48; Cuba 254; Hawaii 264.

Citations: 83*, 64*, 48*, 8*.

Specimens: Rab., Wint. & Pazsch. Fungi europ. *3547*, *2840*. Sub amphitricha *3547*, Ellis & Everhart, N. Amer. Fungi *1297* C, Rav., Fungi

Amer. *81*. Ellis & Everhart, Fungi Col. *1432*, Roum., Fungi Sel. Gal. Exs. *5421* sub *M. contigua*, Balansa 1887—1888.

Reported also variously as *Meliola amphitricha* var. *palmarum* on Phoenix, Calcutta, *M. furcata* and *M. glabra*.

New records: Panama, Barro Colorado, Aug. 26, 1924, *4*. Culebra, Oct. 2, 1924, *940*.

The present specimens agree with the figures and description by Winter and with the specimen distributed by Winter (Rab. Wint., Fungi europ. *3547*); with my own collection from Hawaii (*678*); with a specimen from Farlow's herbarium (Florida Meh. 1911); with Earle's *2027* from Mississippi and Tracy's *32405* from Mississippi.

These specimens however do not agree with the statements of Gaillard who says that the capitate hyphopodia are often several celled and that the head cell is globose or ovoid; forming a strong contrast to the long, irregular, capitate cells found in all of the specimens mentioned above.

A specimen from South Africa (5607) distributed by I. B. Pole Evans has a mycelium distinctly different in color and capitate hyphopodia and should probably be regarded as different.

No. 177. **Meliola bicornis** Winter var. **heterotricha** Speegazzini, Bol. Acad. Nac. Cien., Cordoba **23**: 88. 1919.

On Leguminosae: Desmodium.

Type locality: Apiahy, Brazil, Puiggari *109*.

No. 178. **Meliola castanha** Theissen, Brot. 12: 24. 1914.

On Leguminosae.

Type locality: S. Leopoldo, Brazil.

No. 179. **Meliola kusanoi** Hennings, Bot. Jahrb. (Engler) 28: 272. 1901.

On Araliaceae: Hedera.

Type locality: Kusano, Japan.

Citations: 207, 153.

No. 180. **Meliola cestricola** n. sp.

Colonies densely black, almost crustose, circular, 1—4 mm in diameter, amphigenous. Mycelium coarse, 11 μ. Spot blanched, with a pale zone. Capitate hyphopodia alternate, crowded. Stalk cell short, 3—4 μ; head cell clavate to irregularly lobed. Mucronate hyphopodia ampulliform, 18 × 7 μ.

Perithecial setae none. Mycelial setae simple and acute or cut to several (2—4) short (7—22 μ) acute teeth, black, 600—700 μ long, 11 μ thick at base. Perithecia globose, smooth, 200—230 μ. Asci evanescent. Spores 4 septate, 47—51 × 25 μ.

Group number 31¼1. 5333. Fig. 30.

On Solanaceae; Cestrum. Costa Rica, Peralta, July 12, 1923. *546*.

This is a very distinct species as is shown by its colony, hyphopodia and setae.

No. 181. **Meliola panamensis** n. sp.

Colony hypophyllous, black, indefinite, up to 6 cm. or more across. Mycelium crooked, branching, irregular. Capitate hyphopodia alternate, scattered. Stalk cell short, 3—4 μ; head cell oblong, somewhat irregular, 18—22 × 7—11 μ, sometimes bent. Mucronate hyphopodia ampulliform, scattered, very long and narrow, 29 × 7 μ.

Perithecial setae none. Mycelial setae black, 11 μ thick at base, 600—850 μ, simple and acute or denticulate at tip. Perithecia globose, smooth, 185—230 μ. Asci evanescent. Spores 4-septate, 41—51 × 15—18 μ, central cell largest.

Group number 31½1. 5233. Fig. 31.

On Polygonaceae: Coccoloba sp. Panama, Frijoles, Oct. 14, 1924, *1256*.

The mycelium is much more crooked and irregular than that of *M. coccolobis*; the setae are darker, thicker, longer, and are usually dentate; the capitate hyphopodia also differ.

No. 182. **Meliola livistonae** Yates, Philippine Jour. Sci., C. Bot. 12: 366. 1917.

On Palmae: Livistona.

Type locality: Luzon, Philippines, Bur. Sci. *25632*, Yates.

Specimen: the type.

This species is quite distinct from others on the palms.

## Conspectus of Group 6, Meliola.

Ch. alternate or opposite

3123. 3222, s. 310 μ, obtuse, ch. ovoid, on Apocynaceae . . . . . *wardii* No. 183.

3123. 4232, s. 300—400 μ, obtuse, hc. clavate to irregular, on Rutaceae . . . . . *aterrima* No. 184.

Ch. alternate

Setae attenuate or thickened

3121. 4242, s. 300—350 μ, ch. few, rudimentary, on Icacinaceae . . . . . *cladophila* No. 185.

Setae obtuse

3121. 4232, s. 350—400 μ, hc. globose, on Musaceae . . . . . *musae* No. 186.

3121. 2231, s. 170—230 μ, hc. sub-globose, on Apocynaceae . . . . . *depressula* No. 187.

3121. 4221, s. 170 μ, hc. ovate, on Bignoniaceae *tecomae* No. 188.

3121. 3121, s. 100 μ, hc. ovate, on Cyatheaceae *cornuta* No. 189.

3121. 4232, s. 350 μ, hc. sub-reniform or lobed, on Leguminosae . . . . . *pazschkeana* No. 190.

3121. 4221, s. 180 μ, ch. much lobed, clavate, on Palmae . . . . . *mauritiae* No. 191.

3121. 4221, s. 150—250 μ, obtuse, col. crustose, on Myrtaceae . . . . . *densa* No. 192.

3121. 4231, s. 150—250 μ, obtuse, hc. oval or sub-lobed, on Oleaceae . . . . . *petiolaris* No. 193.

3121. 5222, s. 340—400 μ, hc. globose, on Euphorbiaceae . . . . . *claytiae* No. 193a.

3121. 5332, s. 250—300 μ, hc. very long-stalked, on Lauraceae . . . . . *uncitricha* No. 194.

3121. 6332, s. diform, obtuse, a 150—200 μ, b 250—450 μ, hc. mostly irregular, mycelium very crooked, on Lauraceae . . *drepanochaeta* No. 195.

3121. 5343, s. 600—900 μ, obtuse, hc. lobed, on unknown host . . . . . *megalopoda* No. 196.

Setae acute

3121. 4232, s. 350—450 μ, hc. globose, on Anacardiaceae . . . . . *hamata* No. 197.

3121. 5222, s. 295—330 μ, hc. irregular, ovate or lobed, on Loranthaceae . . . *arcuata* No. 198.

Setae acute or obtuse

3121. 4232, s. 250—350 μ, hc. angular or irregular, on Ulmaceae . . . . . *celticola* No. 199.

3121. 4222, colonies 1 cm., dense, s. 250—340 μ, hc. pyriform, on Myristicaceae *uncinata* No. 199a.

Setae tips not recorded

3121. 223-, hc. oval, on Verbenaceae . . . *lippiae* No. 200.

Setae uncinate or straight

3141. 4232, s. 350—500 μ, hc. cylindric or oval, on Apocynaceae . . . . . *intermedia* No. 201.

3141. 6332, s. 450—500 μ, acute, uncinate or crooked, hc. ovoid, on unknown host . . *balansae* No. 202.

No. 183. **Meliola wardii** n. sp.

Colonies amphigenous circular, 1—10 mm., densely black and velvety with setae. Mycelium 7—9 μ thick, dark brown, straight, regular, branching opposite, often so crowded as to be crustose, often somewhat loose. Capitate hyphopodia alternate, crowded or not. Stalk cell short, 3—4 μ, head cell usually regular, often somewhat irregular, subglobose, obovate to short cylindric, 14—11 μ. Mucronate hyphopodia ampulliform, often merely conic, 14×5 μ.

Perithecial setae none. Mycelial setae scant in young colonies, abundant in old, 150—230 μ long, 8—10 μ thick at base, broadly or closely uncinate, obtuse. Perithecia globose, smooth, 185—200 μ. Asci evanescent. Subicular disks at first entire, later fimbriate. Spores 4 septate, 32—36×14 μ.

Group number 3123. 3221. Fig. 32.

On Apocynaceae: Malouetia panamensis Panama, France Field Sept. 2, 1924, *184* (type). Frijoles, Oct. 14, 1924, *1285*. On Tabernaemontana

British Guiana, Rockstone, July 17, 1922, *452*, *474*, Kartabo, July 21, 1922, *503*. Named in honor of Mr. R. Ward of the Botanic Gardens, Georgetown, British Guiana.

The Guiana specimens do not agree precisely with those from Panama, since in the Guiana specimens the setae are longer, —310 μ, and the perithecia smaller, 80—100 μ. The specimens from Guiana sometimes show both opposite and alternate hyphopodia, thus giving a formula 3123. 3221. Moreover, the Panamanian material shows great variation in itself as follows:

In some colonies the hyphopodia are so crowded that the distance between hyphopodia is less than the thickness of a hyphopodium while in other cases they are not so crowded (See Fig. 32). The subicular disks are quite characteristic. They differ distinctly from the mycelium in color, being much more pale and translucent. In their early stages they are entire and appear honeycombed rather than radiate. In later stages they give off a circle of radiating, fringing hyphae.

The mycelial setae are sometimes present in great profusion rendering the colony velvety and they are sometimes absent even in colonies of considerable size and age. Usually when the first perithecia begin to develop two or three setae appear, when several perithecia have developed the setae are usually numerous. In some colonies they are all broadly uncinate (Fig. 32), in others closely coiled.

Long, simple mycelial branches that bear only ampulliform hyphopodia are of rather frequent occurence. The Guiana specimen also is very distinctly parasitic as is shown by the spots visible from both leaf surfaces and often exceeding the colony in size. It is often densely overgrown by a black Helminthosporium, with toruloid conidiophores.

No. 184. **Meliola aterrima** Sydow, H., Ann. Mycol. **24**: 294. 1926.

On Rutaceae: Zanthoxylum procerum.

Type locality: San Pedro de San Ramon, Costa Rica *113a*.

Specimen: the type.

No. 185. **Meliola cladophila** Sydow, H., Ann. Mycol. **22**: 421. 1924.

On Icacinaceae: Apodytes.

Type locality: South Africa, van der Byl *1661*.

Citation: 18b.

No. 186. **Meliola musae** (Kunze) Montagne, Syll. Crypt. no. 905. 1856.

*Myxothecium musae* Kunze in Weigelt exs. Surinam in Fries, Syst. Myc. **3**: 232. 1829.

*Meliola curviseta* Léveillé in herb.

On Musaceae: Musa 76, Urania 141, 147, 83, Ravenala 101, 9, Heliconia 131, 19, 20, 83. On Araceae: Philodendron 184. On Leguminosae: 9.

Type locality: Surinam, on Musa.

Distribution: Surinam 76, 141, 131, 19, 20, 147, 83; Brazil 184; Amazon 101; Australia 31.

Citations: 131*, 20*, 15*, 83*, 69*, 2.

Specimens: the type, Ule *18*.

New records: On Musaceae: Heliconia sp., on Leaves, Panama, Sweetwater, Oct. 6, 1924, *1067*, Brazos Brook Reservoir, Sept. 22, 1924, *708*, on stems. Barro Colorado, Aug. 26, 1924, *20a*, *633a*. On Heliconia latispatha. Panama, Chiva-Chiva trail, Sept. 18, 1924, *596*.

These specimens agree very closely with the description given by Gaillard as drawn from material from Paramaribo collected in 1844 with the exception of the shape of the capitate hyphopodia which in all of my specimens is more angular and irregular than in these described and figured by Gaillard.

No. 187. **Meliola depressula** Sydow, H. & P., Ann. Mycol. 15: 184. 1917.

On Apocynaceae: Urceola.

Type locality: Laguna, Philippines, Baker *3122*.

Specimens: Baker, Fungi Mal. *548*. Phil. Bur. Sci. *548*.

No. 188. **Meliola tecomae** Stevens, Ill. Biol. Mono. 2: 53. 1916.

On Bignoniaceae: Tecoma.

Type locality: Porto Rico, Stevens *9332*.

Distribution: Porto Rico 261; Dominica 29f.

Citations: 261*, 29, 230a.

No. 189. **Meliola cornuta** Rehm, Hedw. 40: 163. 1901.

On ferns 184, on Cyatheaceae: Dicksonia 9.

Type locality: Brazil, Ule 860.

Citation: 153.

No. 190. **Meliola pazschkeana** Gaillard, Le Gen. Mel. 95. 1892.

On Leguminosae: Bauhinia.

Type locality: Brazil, Ule *1002*.

Citations: 83*, 166, 184, 312, 313.

Specimens: Rab., Wint. & Pazsch., Fungi europ. *3854*.

Theißen (313) calls attention to the similarity of this with *M. manihoticola*.

No. 191. **Meliola mauritiae** n. sp.

Colonies epiphyllous, roughly circular, not dense, confluent. Perithecia about 60—144 μ in diameter, slightly rough. Setae dark, brittle, curved into a long open hook, obtuse, about 180 × 7 μ, borne on the mycelium and almost always very near the bases of the perithecia. Asci evanescent. Spores 4-septate, 43 × 14 μ. Mycelial branches mainly opposite, rarely alternate. Capitate hyphopodia alternate, often light brown, clavate, head cell irregular, 3—4 lobed, about 25 × 18 μ; stalk cell about 10 μ. Mucronate hyphopodia opposite and alternate, light brown.

Group number 3121. 4221. Fig. 33.

On Palmae: Mauritia sp. Trinidad, Guanapo, Aug. 16, 1922, *925*, *908*.

The setae are quite abundant and of characteristic shape, but are so brittle that they were seldom found attached even in celloidin mounts.

They are very rare on the mycelium except in the immediate neighborhood of the perithecia where they occur in large numbers and cluster so closely around the perithecium that it is difficult to determine whether or not they are borne on it. Close study, however, reveals that they arise from the mycelium within about 75 μ of the perithecium and not from the perithecium itself.

An undetermined species of Arthrobotryum was found overgrowing the Meliola. A species of *Grallomyces* was also found and one of the Hemisphaeriales.

No. 192. **Meliola densa** Cooke, Grev. **12**: 85. 1884.

On Myrtaceae: Eucalyptus 37, 83, 31. On Aquifoliaceae: Ilex (?) 83, 37.

Type locality: Queensland, Australia, on Eucalyptus.

Distribution: Australia 37, 83, 31; India 83, 37.

Citation: 31*.

Specimen: the type. Fig. 34.

Examination of the type shows the following characters: colony 1 cm. in diameter, velvety, black, dense, crustose; setae 150—250 μ, obtuse, strongly curved at tip, mycelium thick, 7—8 μ, crooked, anastomosing, capitate hyphopodia alternate, subglobose to ovate, or cylindrical.

The young colonies are without setae and the mycelium moderately loose, but with age the colony becomes densely compact, crustose and thickly covered with the black setae.

No. 193. **Meliola petiolaris** Doidge, Trans. Roy. Soc. So. Africa **8**: 142. 1920.

On Oleaceae: Olea.

Type locality: Natal, South Africa, Doidge *11558*.

Citations: 51*, 55*.

Specimen: the type.

No. 193a. **Meliola cluytiae** van der Bijl, So. African Jour. Sci. **23**: 283. 1926.

On Euphorbiaceae: Cluytia.

Type locality: So. Africa.

No. 194. **Meliola uncitricha** Sydow, H., Ann. Mycol. **24**: 309. 1926.

On Lauraceae: Phoebe neurophylla.

Type locality: Cerro de San Isidro pr. San Ramon, Costa Rica *169c*.

Specimen: the type.

No. 195. **Meliola drepanochaeta** Sydow, H., Ann. Mycol. **24**: 302. 1926.

On Lauraceae: Persea cordata.

Type locality: Piedades de San Ramon, Costa Rica *163*.

Specimen: the type.

No. 196. **Meliola megalopoda** Sydow, H. & P., Ann. Mycol. **15**: 189.

On unknown host.

Type locality: Laguna, Philippines, Baker *3070*.

Specimens: Baker, Fungi Mal. *551*. Phil. Bur. Sci. *551*.

No. 197. **Meliola hamata** Sydow, H. & P., Ann. Mycol. 12: 548. 1914.

On Anacardiaceae: Buchanania.
Type locality: Bulacan, Philippines, Bur. Sci. *21775*, Ramos.
Citations: 352, 301, 354.
Specimen: Phil. Bur. Sci. *23785*

No. 198. **Meliola arcuata** Doidge, Trans. Roy. Soc. So. Africa 5: 737. 1917.

On Loranthaceae: Viscum.
Type locality: Natal, South Africa *2364*.
Citation: 45*.
Specimen: Doidge *8389*.

No. 199. **Meliola celticola** Yates, Philippine Jour. Sci., C. Bot., 13: 366. 1918.

On Ulmaceae: Celtis.
Type locality: Luzon, Philippines, Bur. Sci. *27746*, Ramos.
Specimen: the type.
This differs from *M. celtidiae* in size and character of the spots and in the hooked setae.

No. 199 a. **Meliola uncinata** Sydow, H., Leaf. Philippine Bot. 9: 3120. 1925.

On Myristicaceae: Horsfieldia.
Type locality: Sorsogon, Philippines *17222*.
Specimen: the type.

No. 200. **Meliola lippiae** Maublanc, Bul. Soc. Myc. France 19: 291. 1903.

On Verbenaceae: Lippia.
Type locality: Dahomey.
Citation: 135*.

No. 201. **Meliola intermedia** Gaillard, Le Gen. Mel. 94. 1892.

On Apocynaceae 83. On Rubiaceae 83. On Anacardiaceae: Terebinthe 184. On Euphorbiaceae 184. On Araceae 184. On Menispermaceae 184. On Combretaceae: Laguncularia 184.
Type locality: Congo, Thallon *31*, on Apocynaceae.
Distribution: Congo 83; Brazil 184.
Citation: 83*.
Specimens: Balansa *4320*. Thallon *40*.

No. 202. **Meliola balansae** Gaillard, Le Gen. Mel. 95. 1892.

On unknown host.
On Simarubaceae: Castela 184.
Type locality: Paraguay, Balansa no. *4018*.
Distribution: Paraguay 83, 313; Brazil 184.
Citation: 83*.
Specimen: the type.

## Conspectus of Group 7, Meliola.

Setae obtuse

| | | |
|---|---|---|
| 3113. 4232, colony crustose, s. 340 μ, hc. globose, on Sapindacae | *lyoni* | No. 203. |
| 3113. 3223, s. 450—550 μ, hc. globose, on Rutaceae | *cadigensis* | No. 204. |
| 3113. 5232, s. —300 μ, obtuse, hc. sub-globose, densely crowded, on Euphorbiaceae | *cladophaga* | No. 205. |
| 3113. 3223, s. 300—400 μ, from disk, hc. sub-globose, curved, on Apocynaceae | *isothea* | No. 206. |
| 3113. 3213, s. 460—600 μ, hc. oblong, on Sapotaceae | *sideroxyli* | No. 207. |
| 3113. 3222, s. 400 μ, hc. oblong, on Verbenaceae | *callicarpae* | No. 208. |
| 3113. 4221, s. 80—200 μ, hc. ovoid, on Leguminosae | *constipata* | No. 209. |
| 3113. 4231, s. 170—250 μ, hc. oblong, mostly opposite, on Leguminosae | *koae* | No. 210. |
| 3113. 5332, s. 400 μ, hc. lobed, on Rutaceae | *monensis* | No. 211. |
| 3113. 3221, s. 100—200 μ, on Euphorbiaceae | *manihoticola* | No. 212. |
| 3113. 3222, s. —330 μ, hc. entire, oblong or elliptical, on Apocynaceae | *modesta* | No. 213. |

Setae acute or obtuse

| | | |
|---|---|---|
| 3113. 4222, s. 220—325 μ, hc. ovoid or truncate, on Myrsinaceae | *groteana* | No. 214. |
| 3113. 4334, s. 600—1000 μ, biform, acute or obtuse, on Rhizophoraceae | *bruguierae* | No. 215. |

Setae acute

| | | |
|---|---|---|
| 3113. 5223, s. 900—1000 μ, hc. cylindrical, mostly opposite, on Myrtaceae | *amomicola* | No. 216. |
| 3113. 4121, s. 125—200 μ, hc. globose, on Leguminosae | *desmodii* | No. 217. |
| 3113. 4222, colony arachnoid, thin, s. 200—400 μ, hc. ovoid, sub-globose or pyriform, on Leguminosae | *abrupta* | No. 218. |
| 3113. 4221, s. 150—200 μ, on Leguminosae | *pithecolobiicola* | No. 219. |
| 3113. 4232, s. 250—500 μ, acute, hc. ovate, on unknown host | *ludibunda* | No. 220. |
| 3113. 4222, s. 150—310 μ, hc. sub-globose, on Apocynaceae | *laevipoda* | No. 221. |
| 3113. 4223, s. 350—600 μ, hc. sub-globose, on Phytolaccaceae | *incompta* | No. 222. |
| 3113. 2222, colony dense, crustose, s. —520 μ, acute, on unknown host | *rehmii* | No. 223. |

| | | |
|---|---|---|
| 3113. 4222, colony dense, s. 350—470 μ, hc. ovoid, oblong, on Opiliaceae | *champereiae* | No. 224. |
| 3113. 4322, colony dense, s. 250—300 μ, acute, hc. ovoid, on Oleaceae | *osmanthi* | No. 225. |
| 3113. 4233, colony dense, s. 250—400 μ, hc. ovoid, on Lecythidaceae | *indica* | No. 226. |
| 3113. 4233, s. —650 μ, on Lecythidaceae | *indica* var. *caryae* | No. 227. |
| 3113. 4233, s. 120—250 μ, hc. globose, on Lauraceae | *sdccardoi* | No. 228. |
| 3113. 4222, colony dense, s. 250—400 μ, hc. ovoid, globose, on Vitaceae | *bakeri* | No. 229. |
| 3113. 2221, s. 250 μ, hc. ovoid, globose, on Asclepiadaceae | *telosmae* | No. 230. |
| 3113. 4222, s. 200—300 μ, hc. clavate, on Meliaceae | *atro-velutina* | No. 231. |
| 3113. 3223, s. 300—700 μ, on Meliaceae | *parvula* | No. 232. |
| 3113. 3222, s. 300—400 μ, hc. elliptical, on Sapindaceae | *thouiniae* | No. 233. |
| 3113. 4233, s. 600—1000 μ, hc. entire or irregular, on Anacardiaceae | *pachychaeta* | No. 234. |
| 3113. 4233, s. —750 μ, hc. ovate, on Araliaceae | *didymopanacis* | No. 235. |
| Setae acuminate | | |
| 3113. 6231, s. 200—800 μ, hc. globose, on Convolvulaceae | *francevilleana* | No. 236. |

No. 203. **Meliola lyoni** Stevens, Bish. Mus. Bul. **19**: 37. 1925.
On Sapindaceae: Dodonaea.
Type locality: Hawaii, Stevens *843*.
Citations: 264*, 215*.

No. 204. **Meliola cadigensis** Yates, Philippine Jour. Sci., C. Bot., **12**: 363. 1917.
On Rutaceae: Glycosmis.
Type locality: Luzon, Philippines, Bur. Sci. *25822*, Yates.
Distribution: Luzon 352; India 8.
Citation: 8*.

No. 205. **Meliola cladophaga** Sydow, H., Annal. Mycol. **24**: 299. 1926.
On Euphorbiaceae: Croton.
Type locality: San Pedro de San Ramon, Costa Rica *207*.
Specimen: the type.

No. 206. **Meliola isothea** Sydow, H., Annal. Mycol. **24**: 303. 1926.
On Apocynaceae: Tabernaemontana.
Type locality: Piedades de San Ramon, Costa Rica. *131, 132*.
Specimen: the type.

No. 207. **Meliola sideroxyli** Stevens, Bish. Mus. Bul. **19**: 35. 1925.
On Sopotaceae: Sideroxylon.
Type locality: Kauai, Hawaiian Islands, Swezey *1160*.
Citation: 264*.

No. 208. **Meliola callicarpae** Sydow, H. & P., Annal. Mycol. **10**: 80. 1912.
*Meliola callista* Rehm, Leaf. Philippine Bot. **6**: 2191. 1914.
On Verbenaceae: Callicarpa 4, 5, 354, 286, Premna 201.
Type locality: Manila, Philippines, Merrill *7421*.
Citations: 4, 301, 5, 354.
Specimens: the type, type of *M. callista*, Baker *41*.
*M. callista* was originally described by Rehm as with spores 3-septate, but they are in reality 4-septate. The original description calls for 8-spored asci, but this I am unable to verify.

No. 209. **Meliola constipata** Spegazzini, An. Mus. Nac., Buenos Aires **32**: 370. 1924.
*Meliola bicornis* Winter var. *constipata* Spegazzini, An. Soc. Cient., Argentina **26**: 20, no. 57. 1888.
*Meliola desmodiicola* Beeli, Bul. Jard. Bot., Bruxelles, **7**: 94. 1920.
On Leguminosae: 241, 83, Desmodium 9. On Euphorbiaceae 9. Croton 166, 174.
Type locality: Argentine.
Distribution: Paraguay 241, 83; Brazil 166, 174; Africa, Congo 9.
Specimens: Rab., Wint.-Pazsch. Fungi europ. *3848*, Balansa *4022*, Vanderyst *2086*.

No. 210. **Meliola koae** Stevens, Bish. Mus. Bul. **19**: 34. 1925.
On Leguminosae: Acacia.
Type locality: Oahu, Hawaiian Islands, Stevens *163*.
Citations: 264*, 215*.

No. 211. **Meliola monensis** Stevens, Ill. Biol. Mono. **2**: 38. 1916.
On Rutaceae: Amyris.
Type locality: Porto Rico, Mona Island, Stevens *6158*.
Citations: 261*, 230a.

No. 212. **Meliola manihoticola** Hennings, Hedw. **43**: 364. 1904.
On Euphorbiaceae: Manihot.
Type locality: Manaos, Amazon, Ule *2969*.
Citation: 101*.
Specimens: Ule, Myc. Bras. 60.

No. 213. **Meliola modesta** Sydow, H., Annal. Mycol. **24**: 304. 1926.
On Apocynaceae: Thevetia.
Type locality: San Pedro de San Ramon, Costa Rica *231*.
Specimen: the type.

No. 214. **Meliola groteana** Sydow, H. & P., Annal. Mycol. **11**: 402. 1913.
*Meliola maesae* Rehm, Philippine Jour. Sci., C. Bot., **8**: 392. 1913.
On Myrsinaceae: Maesa.

Type locality: German East Africa. Fig. 35.

Distribution: German East Africa 290; Philippines 200.

Citations: 4, 3, 198.

Specimens: the type, Syd., Fungi exot. exs. *247*, type of *M. matsac.*

No. 215. **Meliola bruguierae** Sydow, H., Leaf. Philippine Bot. 9: 3116. 1925.

On Rhizophoraceae: Bruguiera.

Type locality: Sorsogon, Philippines, Irosin *16776*.

Specimen: the type.

No. 216. **Meliola amomicola** Stevens, Ill. Biol. Mono. 2: 40. 1916.

On Myrtaceae: Amomis.

Type locality: Porto Rico, Stevens *7054*.

Citations: 261*, 230a.

A typographical error occurs in the text of the original publication regarding the length of the spores; they are really 36–51 μ long.

No. 217. **Meliola desmodii** Karsten & Roumeguère, Rev. Mycol. 12: 77. 1890.

On Leguminosae: Desmodium (Meibomia) 128, 83, 197, 294, 4, 352, 301, 86, 354, 271, 275, 207, 331a; Bradburya 331a.

Type locality: Tonkin, China, Balansa, Dec. 1887, *5*.

Distribution: China 128, 83, 271, 207; Philippines 197, 480; 4, 352, 301, 86, 354, 275; Amboina 271; Santo Domingo, 331a.

Citation: 83*.

Specimens: Roum., Fungi sel. Gal. Exs. *5420*; Phil. Bur. Sci. *23895*.

The capitate hyphopodia are given in the original description as alternate. Gaillard gives them as alternate, and figures them as alternate but then says 'most often opposite, rarely alternate'.

The distinction between this and *M. abrupta* seems to rest in the mucronate hyphopodia which in the latter species have very long narrow necks.

No. 218. **Meliola abrupta** Sydow, H. & P., Annal. Mycol. 15: 181. 1917.

*Meliola derridis* Yates, Philippine Jour. Sci., C. Bot., 13: 368. 1918.

On Leguminosae: Derris 301, 354.

Type locality: Luzon, Philippines, Ramos, Bur. Sci. *24068*.

Citation: 273.

Specimen: the type. Phil. Bur. Sci. *23904*. *M. derridis 27788*.

No. 219. **Meliola pithecolobiicola** Spegazzini, An. Mus. Nac., Buenos Aires, 32: 371. 1924.

On Leguminosae: Pithecolobium.

Type locality: Argentine.

No. 220. **Meliola ludibunda** Spegazzini, An. Soc. Cient., Argentina, 17: 178. 1883.

On Leguminosae: 184, 313, 174. On Aristolochiaceae: Aristolochia 313, Ule *971*, *2200*. On Rutaceae: Xanthoxylum 251, Pilocarpus 241, 83, 313, 255. On Anacardiaceae: 313, Schinus 313.

Type locality: Guarapi, Paraguay *2720*, on unknown host.

Distribution: Paraguay 236, 241, 251; Argentine 255; Brazil 184, 313, 251.

Citations: 263*, 346, 215.

Specimens: the type. Balansa *4329*, *2745*, *4022*, Rab., Wint. & Pazsch., Fungi europ. *3248*, Rick, Fungi aust.-amer. *71*.

No. 221. **Meliola laevipoda** Spegazzini, Rev. Argentina Hist. Nat. 1: 77. 1891.

*Meliola membranacea* Starbäck, Bih. till Kongl. Svensk. Vetensk. Akad. Handl. **25**: 21.

On Apocynaceae: Aspidosperma.

Type locality: Paraguay, Balansa *3589*.

Distribution: Argentine 243, 255, 247; Paraguay 84, 184, 257, 254a.

Citations: 263*, 255, 257*.

Specimen: the type.

No. 222. **Meliola incompta** Sydow, H. & P., Annal. Mycol. **18**: 98. 1920.

On Phytolaccaceae: Phytolacca.

Type locality: Los Baños, Philippines, Clara, *6696*.

No. 223. **Meliola rehmii** n. nov.

*Meliola horrida* Rehm, Philippine Jour. Sci., C. Bot., **8**: 393. 1913 (not *Meliola horrida* Ell. & Ev.).

On unknown host; on Myrtaceae.

Type locality: Luzon, Philippines, *976*, Baker.

Citation: 4.

Specimen: the type of *M. horrida*.

The colonies are very dense, black, mostly crustose, setae acute to 520 μ long. The spores are 4-septate.

No. 224. **Meliola champereiae** Sydow, H. & P., Annal. Mycol. **12**: 549. 1914.

On Opiliaceae: Champereia; on Santalaceae. 9.

Type locality: Luzon, Philippines, Ramos, Bur. Sci. S. *236*. Fig. 36.

Citation: 301.

Specimens: Syd., Fungi Exot. Exs. *369*, Phil. Bur. Sci. *23997*.

No. 225. **Meliola osmanthi** Sydow, H. & P., Annal. Mycol. **18**: 157. 1920.

On Oleaceae: Osmanthus.

Type locality: Japan, Krug *88*.

Distribution: Japan 304; Hawaii 264.

Citation: 264*.

No. 226. **Meliola indica** Sydow & Butler, Annal. Mycol. **9**: 382. 1911.

*Meliola barringtoniae* Yates, Philippine Jour. Sci., C. Bot., **12**: 363. 1917.

On Lecythidaceae: Barringtonia.

Type locality: India, Butler *1036*.

Distribution: India 307; Philippines 352, 354, 275.

Specimen: Phil. Bur. Sci. *29572*.

No. 227. **Meliola indica** Sydow & Butler var. **careyae** n. var.

On Lecythidaceae: Careya.

Type locality: India, Garisoppa Falls, N. Kanara, Oct. 1919. *1985*.

This differs from the Philippine type in its longer setae (—650 μ) and its slightly elongate hyphopodia and crooked mycelium.

Citation: 264a.

No. 228. **Meliola saccardoi** Sydow, H., Annal. Mycol. **20**: 68. 1922.

*Meliola cookeana* Spegazzini var. *saccardoi* Sydow, Annal. Mycol. 2: 170. 1904.

*Meliola litseae* Graff, Mem. Torrey Bot. Club **17**: 61. 1918.

On Lauraceae: Litsea.

Type locality: Chile.

Distribution: Chile 279; Philippines 301, 6, 83, 201, 273.

Specimens: Baker, Fungi Mal. *42*, *362*, Phil. Bur. Sci. *20994*.

No. 229. **Meliola bakeri** Sydow, H. & P., Annal. Mycol. **14**: 355. 1916.

On Vitaceae: Tetrastigma.

Type locality: Philippines, Baker *3987*.

Citation: 301.

Specimens: Baker, Fung Mal. *249*, Phil. Bur. Sci. *24027*.

No. 230. **Meliola telosmae** Rehm, Philippine Jour. Sci., C. Bot., **8**: 392. 1913.

On Asclepiadaceae: Telosma.

Type locality: Luzon, Philippines, Baker *699*.

Citations: 4, 301.

Specimens: Baker, Fungi Mal. *256*, Phil. Bur. Sci. *23731*.

No. 231. **Meliola atro-velutina** Spegazzini, An. Mus. Nac., Buenos Aires, **32**: 375. 1924.

On Meliaceae: Trichilia.

Type locality: Argentine.

No. 232. **Meliola parvula** Sydow, H. & P., Leaf. Philippine Bot. **6**: 1925. 1913.

*Meliola aglaiae* Sydow, H. & P., Philippine Jour. Sci., C. Bot. **9**: 159. 1914.

On Meliaceae.

Type locality: Mindanao, Philippines, *13452*.

Citation: 6, 297, 5.

Specimens: the type, Phil. Bur. Sci. *8884*.

Though the colonies of the types of the two species here united show considerable difference in character, the fact that they occur upon the some host family, and that they are indistinguishable microscopically leads me to regard them as co-specific.

No. 233. **Meliola thouiniae** Earle, Bul. N. Y. Bot. Gard. **3**: 308. 1916.

On Sapindaceae: Allophylus 261, Thouinia 261, 58. On Canellaceae: Winterana 261. On Rhamnaceae: Krugiodendron 261.

Type locality: Porto Rico, Heller *6435*, on Thouinia.

Citations: 261*, 230a.

Specimen: the type.

No. 234. **Meliola pachychaeta** Sydow, H., Philippine Jour. Sci., C. Bot., **21**: 134. 1922.

On Anacardiaceae: Semecarpus.

Type locality: Amboina, Reliquiae Robinsonianae *2059*.

*Meliola pachychaeta* seems to be related to *Meliola aliena* from which it differs especially in the much larger setae.

No. 235. **Meliola didymopanacis** Hennings, Hedw. **34**: 106. 1895.

On Araliaceae: Dendropanax 261, 89.

Type locality: Brazil, Glaziou *1893*.

Specimen: cotype.

Citation: 230a.

No. 236. **Meliola francevilleana** Gaillard, Le Gen. Mel. 88. 1892.

*Meliola densa* Cooke var. *convolvuli* Beeli, Bul. Jard. Bot., Bruxelles, **8**: 2. 1923.

On Convolvulaceae: Breweria.

Type locality: Congo, Africa.

Citations: 83*, 10.

Specimens: the type, the type of *M. densa* var. *convolvuli*.

Study of a portion of the type of this variety and comparison with that of *M. densa* leads me to conclude that it is in no wise related to *M. densa*. The setae are not typically uncinate. The hyphopodia are mainly alternate and I place it as a synonym of *M. francevilleana*.

## Conspectus of Group 8, Meliola.

S. obtuse

3112. 3131, s. 100—125 μ, very few, hc. few, conic, on Leguminosae . . . . . *conigera* No. 237.

3112. 3221, s. 170 μ, hc. ovoid, on Leguminosae *aethiops* No. 238.

3112. 3231, hc. sub-globose, rarely alternate, s. 100—300 μ, obtuse or truncate, on Leguminosae . . . . . *acaciarum* No. 239.

3112. 3221, s. 150—250 μ, hc. ovoid, globose, on Verbenaceae . . . . . *cookeana* No. 240.

3112. 3221, mucronate hyphopodia rare, on Anacardiaceae . . . . . *cookeana* f. *duvauae* No. 241.

3112. 3221, s. 150—250 μ, hc. ovoid, globose, on Sapindaceae . . . . . *cookeana* var. *major* No. 242.

3112. 3231, s. 150—300 μ, hc. sub-ovoid, globose, on Convolvulaceae . . . . . *malacotricha* No. 243.

3112. 4222, s. 360—400 μ, acute, spore end cells conic, ch. crowded, sub-conic, on Cucurbitaceae . . . . . *malacotricha* var. *major* No. 244.

3112. 3221, s. 185—230 μ, hc. conic, on Leguminosae . . . . . *conica* No. 245.
3112. 3221, s. 230—280 μ, clustered around the perithecium, hc. conic, on Sapindaceae . . *mataybae* No. 246.
3112. 3223, s. 435—850 μ, hc. ovoid to conic, crowded, on Polygonaceae . . . . . *angusta* No. 247.
3112. 5233, s. 360—600 μ, hc. ovate, cylindric, on Oleaceae . . . . . *gemellipoda* No. 248.
3112. 3212, s. 290—308 μ, hc. cylindric, on Styracaceae . . . . . *styracearum* No. 249.
3112. 3241, s. 200—300 μ, hc. cylindric-clavate, on Rhamnaceae . . . . . *scutiae* No. 250.
3112. 4233, s. 500—600 μ, hc. oblong, on Rutaceae . *peleae* No. 251.
3112. 4233, s. 450—650 μ, hc. ovate, on Myrsinaceae *transvaalensis* No. 251a.
3112. 5323, s. 350—700 μ, hc. ovate, on Ebenaceae *diospyri* No. 252.

S. acute

3112. 5333, s. 500—625 μ, acute, hc. turbinate, rarely alternate, on Lauraceae . . . . . *praetervisa* No. 253.
3112. 3222, s. 300—400 μ, hc. sub-globose, rarely alternate, on Meliaceae . . . . . *opposita* No. 254.
3112. 3221, s. 170—220 μ, hc. sub-globose, mostly opposite, on Euphorbiaceae . . . . . *brachypoda* No. 255.
3112. 4233, s. 250—600 μ, hc. globose, ovoid, on Monimiaceae . . . . . *rigida* No. 256.
3112. 3222, s. 300—500 μ, hc. ovoid-sub-globose, on Rubiaceae . . . . . *sandwicensis* No. 257.
3112. 5332, s. 300—350 μ, hc. sub-ovoid, on Rutaceae . . . . . *toddaliae* No. 258.
3112. 6342, s. 350 μ, acute, hc. sub-clavate, on unknown host . . . . . *leopoldina* No. 259.
3112. 3221, s. 200—250 μ, acute, hc. ovate-cylindrical, on Leguminosae . . . . . *andirae* No. 260.
3112. 3221, s. 200—250 μ, acute, hc. ovate-cylindrical, on Leguminosae . . *andirae* var. *puttemansii* No. 261.
3112. 5232, s. 350 μ, acute, hc. cylindric, on unknown host . . . . . *leptopus* No. 262.
3112. 4234, s. 500—1500 μ, hc. clavate, on unknown host . . . . . *acamptinga* No. 263.
3112. 3223, s. 600—900 μ, hc. cylindrical, on Euphorbiaceae . . . . . *luzonensis* No. 264.
3112. 3221, s. 180—250 μ, acute, hc. cylindrical, on Anacardiaceae . . . . . *nicaraguensis* No. 265.
3112. 4224, s. 460—1100 μ, acute, hc. cylindrical or irregular, on Myrtaceae . . . . . *eugeniicola* No. 266.

3112. 3221, s. 200—240 μ, hc. cylindrical, on Saxifragaceae . . . . . *cylindrophora* No. 267.
3112. 42-3, s. —800 μ, acute, hc. sub-globose to cylindric, on Leguminosae . . . . . *inocarpi* No. 268.
3112. 5321, s. 600—750 μ, hc. lobed or globose, on Elaeocarpaceae . . . . . *elaeocarpeae* No. 269.
3112. 4222, s. 250—500 μ, hc. crowded, subcrustose, on Celastraceae . . . . . *falcatiseta* No. 270.

S. tips unrecorded

3112. 3231, s. 50—150 μ, hc. pyriform, on Rosaceae . . . . . *glabriuscula* No. 271.
3112. 1---, hc. ovate, on unknown host . . . *formosa* No. 272.

No. 237. **Meliola conigera** Stevens & Tehon, Mycol. **18**: 9. 1926.

On Leguminosae: Pentaclethra.

Type locality: British Guiana, Stevens *387a*.

Citation: 266*.

No. 238. **Meliola aethiops** Saccardo, Bul. Orto Bot. R. Univ. Napoli **6**: 41. 1921.

On Leguminosae: Cassia.

Type locality: Singapore.

Specimen: Baker, Fungi Mal. *449*.

No. 239. **Meliola acaciarum** Spegazzini, An. Soc. Cient. Argentina **93**: no. 4. 1922.

On Leguminosae: Acacia.

Type locality: Brazil.

No. 240. **Meliola cookeana** Spegazzini, An. Soc. Cient. Argentina **12**: 41, no. 116. 1881.

On Scrophulariaceae: 348. On Convolvulaceae: Ipomoea 101. On Solanaceae: Solanum 119. On Verbenaceae: Callicarpa 235, 134, 83, 64, 313, 197, 254, Lantana 9, 4, 5. On Lauraceae: (Goeppertia) Cryptocarya 313. On Leguminosae: Bradburia 119.

Type locality: Florida, U. S. A., on Callicarpa.

Distribution: Argentine 235, 254; So. U. S. A. 134, 83, 64, 313; St. Thomas, Africa 348; Brazil 166; Peru 101; Philippines 197.

Citation: 83*.

Specimens: Rav., Fungi Amer. *84*. Heller *6402*.

Spegazzini (254) believes this identical with *Meliola callicarpae* from which descriptions show differences only in position of hyphopodia and length of setae. Gaillard figures the capitate hyphopodia as alternate. Spegazzini says that *M. cookeana* = *M. callicarpae* = *M. vilis*.

No. 241. **Meliola cookeana** Spegazzini forma **duvauae** Saccardo & Sydow, Annal. Mycol. **2**: 170. 1904.

On Anacardiaceae: Duvaua.

Type locality: Chile, Neger.

No. 242. **Meliola cookeana** Spegazzini var. **major** Gaillard, Le Gen. Mel. 74. 1892.

On Sapindaceae: Dodonaea.

Type locality: San Francisco, Brazil, Ule.

Citation: 166.

Specimen: the type.

No. 243. **Meliola malacotricha** Spegazzini, An. Soc. Cient. Argentina 26. no. 59. 1888.

*Meliola ipomoeae* Earle, Muhl., 1: 10. 1901.

*Meliola merremiae* Rehm, Philippine Jour. Sci., C. Bot. 8: 253. 1913.

*Meliola hewittiae* Rehm, Philippine Jour. Sci., C. Bot. 8: 253. 1913.

Given as *M. hewittiae* in the Sylloge Fungorum, Vol. 24, p. 281.

*Meliola ipomoeae* Rehm, Annal. Mycol. 12: 171. 1914.

On Solanaceae: Solanum 184, 313. On Convolvulaceae: Dichondra 184, 241, 207, 251, 255, 83, 313, Merremia 197, 274, Ipomoea 261, 29, 2, 57, Hewittia 197, 4, 353, 301, 275. On Anacardiaceae: Schinus 83, 166, 184, 203, 187, 313, 174, Lithraea 313. On Leguminosae: Berlinia 313, 184, 83, Indigofera 48, Zollernia 184, Baphia 48, Collaea 313, 206, Lonchocarpus 184. On Anonaceae: Guatteria 184, 313. On Compositae: Mikania 184, 313. On Euphorbiaceae: Croton 184, 313. On Meliaceae: Trichilia 313. On Cucurbitaceae: 9.

Type locality: Paraguay, on Dichondra.

Distribution: Paraguay 241, 83, 313, 207; Africa 83, 313, 48; Brazil 83, 166, 184, 313, 174; Philippines 197, 4, 301, 352, 275, 271; Argentine 255; Porto Rico 261, 29, 2, 57, Costa Rica 251.

Citations: 83*, 48*, 201, 215, 230a.

Specimens: Rab., Wint. & Pazsch., Fungi europ. *3850*, *3348* sub. *M. ludibunda*. The type of *M. merremiae*. Phil. Bur. Sci. *21789*, *24034*. Baker Fungi Mal. *44*, *253*. Sydow, Fungi Exot. *372*, Heller 6258, Co-type of *M. ipomoeae* Rehm, Roum., Fungi sel. Gal. Exs. *5343*, Union Sc. Afr. *9703*.

This species is given in Gaillard's text as with hyphopodia opposite, though his figure shows them alternate. Doidge gives them as both opposite and alternate.

The original publication of the name *Meliola ipomoeae* Rehm was without description with the statement that the description 'erscheint in Philipp Journ. sc.' which it did not do. Moreover, the name was preempted by *Meliola ipomoeae* Earle and it was later announced that the host was probably Merremia not Ipomoea.

New records: On Convolvulaceae: Ipomoea, Costa Rica, Peralta, July 13, 1923, *442*, *447*; Panama, Gatuncillo, Aug. 18, 1923, *1158*, Corozal, Trail 17, Aug. 30, 1924, *84*, *101*, *107*, *135*, Las Cruces trail, Sept. 2, 1924, *167*, Culebra, Oct. 2, 1924, *936*, France Field, Oct. 3, 1924, *964*, *978*, Mandingo, Oct. 15, 1924, *1320*; British Guiana, Tumatumari, July 12, 1922, *228*, Kartabo, July 23, 1922, *617*.

The frequent association of this species, on the same leaf, with *M. clavulata*, as was found also in Porto Rico is noteworthy.

No. 244. **Meliola malacotricha** Spegazzini var. **major** Beeli, Bul. Jard. Bot., Bruxelles 7: 96. 1920.

On Cucurbitaceae.

Type locality: Congo, Africa, Vanderyst *2064*.

Specimen: the type.

This variety differs from the type in that its spores are larger, 44 ⩽ 16 μ, the mycelial setae longer, 350—400 μ, and the capitate hyphopodia very irregular.

No. 245. **Meliola conica** n. sp.

Colonies hypophyllous, small, 2—3 mm, circular, black. Mycelium nearly straight, 6 μ thick, branching opposite at nearly right angles. Capitate hyphopodia strictly opposite, conic, close, about 18—20 μ apart, often bent. Stalk cell very short, 2 μ; head cell 11 ⩽ 4 μ. Mucronate hyphopodia ampulliform, few.

Perithecial setae none. Mycelial setae few, black, rigid, simple, obtuse, 185—230 μ, 6 μ thick. Perithecia globose, smooth, 107—155 μ, on a radiate subicle. Asci evanescent. Spores 4-septate, 30—33 ⩽ 18 μ.

Group number 3112. 3221. Fig. 37.

On Leguminosae (Mimosaceae): Costa Rica, Sabario, Aug. 8, 1923, *787*, *795*. Las Mercedes, July 17, 1923, *493*, Parismina Junction, July 20, 1923, *607*.

The conic, strictly opposite, capitate hyphopodia are very characteristic. The perithecia when young are very flat, radiate and of Microthyriaceous appearance, later they become globose. The setae are so rare that if only a few preparations are made they might be missed.

No. 246. **Meliola mataybae** n. sp.

Colony minute, black, epiphyllous. Mycelium straight, branches at right angles. Capitate hyphopodia opposite, conic, slightly antrorse, very close, 7—11 μ. Stalk cell short, 3—4 μ; head cell conic, 11 ⩽ 7 μ. Mucronate hyphopodia ampulliform.

Perithecial setae none. Mycelial setae clustered around the perithecium, absent elsewhere, simple, obtuse, 230—280 μ. Perithecia globose, smooth, 155—200 μ, borne on an alveolar disk. Asci evanescent. Spores 4-septate, 36—39 ⩽ 15 μ.

Group number 3112. 3221. Fig. 38.

On Sapindaceae: Matayba scrobiculata. Costa Rica, El Alto, July 26, 1923, *245*.

This is a very distinct species as is shown by the few setae and the mycelial characters.

No. 247. **Meliola angusta** Stevens & Tehon, Mycol. 18: 6. 1925.

On Polygonaceae: Coccoloba.

Type locality: British Guiana, Stevens *558*.

No. 248. **Meliola gemellipoda** Doidge, Bothalia 1: 81. 1924.

On Oleaceae: Jasminum.

Type locality: Cape Province, Africa, Doidge *12352*.

No. 249. **Meliola styracearum** n. sp.

Colony epiphyllous, indefinite, 3—10 mm. Mycelium translucent, branching opposite, often at acute angle, sometimes at right angle. Capitate hyphopodia opposite, inclined slightly forward. Stalk cell short, 3—4 μ; head cell cylindrical, obtuse, very regular, pale to almost hyaline. Mucronate hyphopodia ampulliform.

Perithecial setae none. Mycelial setae very few, simple, 290—308 μ, 7—8 μ thick at base, apex obtuse. Perithecia globose, smooth, 90 μ, on a radiate disk. Asci evanescent. Spores 4-septate, 36 × 14 μ.

Group number 3112. 3212. Fig. 39.

On Styracaceae: Styrax argenteus. Costa Rica, Cartago, June 23, 1923, *105* (type), *73*.

The setae are very scant, often only one or two on a large colony. The pale hyphopodia are quite unique.

No. 250. **Meliola scutiae** Spegazzini, An. Mus. Nac., Buenos Aires, 23: no. 1342. 1912.

On Rhamnaceae: Scutia.

Type locality: Argentine.

Citation: 255.

No. 251. **Meliola peleae** Stevens, Bish. Mus. Bul. 19: 34. 1925.

On Rutaceae: Pelea. On Lauraceae: Cryptocarya.

Type locality: Hawaii, Stevens *840*.

Citation: 264*.

No. 251a. **Meliola transvaalensis** Doidge, Both. 11: 239. 1927.

On Myrsinaceae: Myrsine.

Type locality: So. Africa.

No. 252. **Meliola diospyri** Sydow, H. & P., in Sydow & Butler Annal. Mycol. 9: 381. 1911.

*Meliola diospyriae* Yates, Philippine Jour. Sci. 12: 364. 1917.

*Meliola yatesiana* Trotter, Syll. Fung. 24: 284. 1926.

On Ebenaceae: Diospyros.

Type locality: Mysore, India, Butler *1044*.

Distribution: India 307; Philippines 352.

Specimen: the type.

No. 253. **Meliola praetervisa** Gaillard, Le Gen. Mel. 78. 1892.

On Lauraceae 83, 313. On Polygonaceae: Coccoloba 261. On Sapindaceae: Cupania 261, 313.

Type locality: Java on Lauraceae.

Distribution: Java 83, 313; Porto Rico 261; Brazil 313; Santo Domingo 331a.

Citations: 83*, 261*, 230a.

New record: On Coccoloba sp. British Guiana, Kartabo, July 23, 1922. *597a*.

No. 254. **Meliola opposita** Sydow, H. & P., Leaf. Philippine Bot. 6: 1924. 1913.

*Meliola amoorae* Yates, Philippine Jour. Sc., C. Bot., 13: 364. 1918.

*Meliola trichiliae* Beeli, Bul. Jard. Bot., Bruxelles, 7: 99. 1920.

On Meliaceae: 292, Amoora 354, Trichilia 9.

Type locality: Mindanao, Philippines *13659*.

Distribution: Philippines 4, 292, 354; Congo, Africa 9.

Citation: 4.

Specimens: the type, the type of *M. amoorae*, the type of *M. trichiliae*.

The three species here united, from examination of the types, are very closely alike: *M. trichiliae* has a mycelium that is slightly crooked, while *M. opposita* has slightly irregular hyphopodia. These slight differences do not warrant considering them as separate species.

No. 255. **Meliola brachypoda** Sydow, H. & P., Annal. Mycol. 20: 67. 1922.

*Meliola macarangae* Yates, Philippine Jour. Sci. 12: 367. 1917 (not *M. macarangae* Syd.).

On Euphorbiaceae: Macaranga.

Type locality: Luzon, Philippines, Bur. Sci. *25621* Yates.

Specimen: the type.

No. 256. **Meliola rigida** Doidge, Trans. Roy. Soc. So. Africa 5: 736. 1917.

On Monimiaceae: Xymalos.

Type locality: Natal, South Africa, Doidge *1775*.

Citations: 45*, 51, 18b.

Specimens: the type, Union So. Africa *8894*.

No. 257. **Meliola sandwicensis** Ellis & Everhart, Bul. Torrey Bot. Club 22: 434. 1895.

On Rubiaceae: 65, 264, Kadua 264.

Type locality: Hawaii, Heller *2369*.

No. 258. **Meliola toddaliae** Doidge, Trans. Roy. Soc. So. Africa 5: 732. 1917.

On Rutaceae: Toddalia, Fagara.

Type locality: Natal, South Africa, *8788* Pegler.

Citations: 51, 56, 45*.

Specimens: the type, Union So. Africa *8999, 8788*.

No. 259. **Meliola leopoldina** Theißen, Brot. 12: 25. 1914.

On unknown host.

Type locality: Brazil.

No. 260. **Meliola andirae** Earle, Bul. N. Y. Bot., Gard., 3: 303. 1905.

On Leguminosae: Andira.

Type locality: Porto Rico, Heller *6448*.

Distribution: Porto Rico, 58, 261, 29.

Citations: 261*, 230n.

Specimen: the type.

New records: On Andira inermis. Panama, Las Cruces trail, Sept. 2, 1924, *149*, Paitilla Pt., Sept. 8, 1924, *359*, Brazos Brook Reservoir, Sept.

22, 1924, *745*. Ft. Randolph, 100 feet hill trail, Sept. 19, 1924, *868*. Tumba Muerta, Oct. 12, 1924, *1230*. On Andira sp. Panama, Fort Davis, Mt. Hope, Old Road, Sept. 25, 1924, *816*.

No. 261. **Meliola andirae** Earle var. **puttemansii** Arn., Thesis, 229. 1918. *Dimerosporium meliolicola* Hennings, Hedw. **42**: 107. 1903.

On Leguminosae: Andira.

Citation: 2*.

Type locality: Brazil.

No. 262. **Meliola leptopus** Theißen, Brot. **12**: 23. 1914.

On unknown host.

Type locality: Brazil.

No. 263. **Meliola acamptinga** Spegazzini, Rev. Mus. La Plata **15**: 15. 1908.

On unknown host.

Type locality: Brazil.

No. 264. **Meliola luzonensis** Sydow, H. & P., Annal. Mycol. **15**: 188. 1917.

On Euphorbiaceae: Antidesma.

Type locality: Luzon, Philippines, Bur. Sci. *23976* Ramos.

Specimen: the type.

No. 265. **Meliola nicaraguensis** Spegazzini, Bol. Acad. Nac. Cient., Cordoba, **26**: 378. 1923.

On Anacardiaceae: Spondias.

Type locality: Nicaragua, Wright herbarium.

Reported as *Meliola musae* in the Wright collection.

No. 266. **Meliola eugenicola** n. sp.

Colonies amphigenous, thin, circular, 1—5 mm. in diameter. Mycelium straight, thick, 7 μ, dark, branching often nearly at right angles. Spot none. Capitate hyphopodia opposite, antrorse, close, 18 μ. Stalk cell short, 3—4 μ; head cell cylindrical or slightly irregular, 14—15 × 7—8 μ. Mucronate hyphopodia ampulliform.

Perithecial setae none. Mycelial setae long, 460—1100 μ, simple, acute, straight or gracefully flexuose. Perithecia dimidiate when young, globose when mature, smooth, 140 μ in diameter, from alveolar disks. Asci evanescent. Spores 4-septate, 43 × 18 μ.

Group number 3112. 4224.

On Myrtaceae: Eugenia eucalyptoides. India, Pachanada, Mangalore, April 16, 1913. 1989.

Citation: 264a*.

Though some twenty-five species of the Meliolinae have been described on the Myrtaceae this shows superficial resemblance with only two, viz. *M. amomicola* from which it differs markedly in colony and mycelial characters and in the fact that the hyphopodia are strictly opposite; and *M horrida* Rehm (not Ell. & Ev.) from which it differs in its setae and colony.

In a general key it would fall with those Meliolas of formula 3112. with acute setae. From all of these it differs materially in length of setae.

No. 267. **Meliola cylindrophora** Rehm, Philippine Jour. Sci., C. Bot. 8: 181. 1913.

On Saxifragaceae: Itea 196, 294, 5, 4, 275. On Leguminosae: Caesalpinia 4, 288. On Verbenaceae: Premna 199, 202, 6. On Borraginaceae: Ehretia 199, 202. On Sapindaceae: Guioa 301, Nephelium 9.

Type locality: Luzon, Philippines, Baker *394*, on Saxifragaceae.

Citations: 197, 199, 301*.

Specimens: Baker, Fungi Mal. *43*, Sydow, Fungi Exot. Exs. *172*, Phil. Bur. Sci. *8437*.

No. 268. **Meliola inocarpi n. sp.**

Colonies amphigenous, 2—8 mm, irregular. Mycelium straight, branching rectangular. Capitate hyphopodia opposite, close but not crowded. Stalk cell short, 3—4 μ; head cell sub-globose to cylindrical. Mucronate hyphopodia ampulliform.

Perithecial setae none. Mycelial setae few, acute, straight, —800 μ. Perithecia globose, from alveolar disks. Asci evanescent. Spores 43—46 ⩽ 21 μ.

Group number 3112. 42—3. Fig. 40.

On Leguminosae: Inocarpus. Singapore, Straights Settlements. Baker Fungi Mal. *459*.

The most distinctive characters are the rectilinear mycelium, rectangular branching and coarse, long setae.

No. 269. **Meliola elaeocarpeae** Yates, Philippine Jour. Sci., C. Bot., 12: 365. 1917.

On Elaeocarpaceae: Elaeocarpus.

Type locality: Luzon, Philippines, Bur. Sci. *25175* Yates.

Specimen: the type.

No. 270. **Meliola falcatiseta** Spegazzini, An. Mus. Nac., Buenos Aires 19: 327, no. 479. 1909.

On Celastraceae: Mystroxylon 9. On Anacardiaceae: Lithraea 9. On Simarubaceae: Castela 255.

Type locality: Argentine.

No. 271. **Meliola glabriuscula** Spegazzini, Rev. Mus. La Plata 15: 15. 1908.

On Rosaceae: Photinia (?).

Type locality: Sao Paulo. Brazil.

Citation: 263*.

Specimen: the type.

No. 272. **Meliola formosa** Welwitsch & Currey, Trans. Linn. Soc., London, Ser. 1, 26: 284. 1870.

On unknown host.

Type locality: Angola, East Africa *40*.

Citation: 343*.

## Conspectus of Group 9, Meliola.

Setae slightly swollen

3111. 2121, s. 150—185 μ, slightly swollen, colonies 1—10 mm., hc. globose, 7—9 μ, on Gentianaceae . . . . . *lisianthi* No. 273.

3111. 3221, colonies 2—5 mm., s. 185—215 μ, slightly swollen, hc. globose, on Anonaceae . . . . . *anonae* No. 274.

3111. 2121, colonies 2—4 mm., mycelium straight, s. 170—180 μ, slightly swollen, hc. sub-globose to ovate, on Bignoniaceae *crescentiae* No. 275.

Setae distinctly swollen

3111. 3221, colonies 1—3 mm., s. 150—250 μ, clavate, hc. ovate-globose, on Convolvulaceae . . . . . *clavulata* No. 276.

3111. 3222, colonies 1—2 mm., s. 280—305 μ, hc. globose, on Convolvulaceae . *clavulata* var. *batatae* No. 277.

3111. 4221, colonies 2—5 mm., s. 130—180 μ, thick at tip, hc. irregularly lobed, on Gramineae . . . . . *hercules* No. 278.

Setae hispid at tip

3111. 6223, colonies 1—3 mm., s. 600—700 μ, hc. clavate, oblong or lobed, on Marantaceae . . . . . *hispida* No. 279.

Hc. conic

3111. 5341, colonies 3—10 mm., s. 100—200 μ, hc. conic, on Styracaceae . . *styracicola* No. 280.

Setae and hc. not as above

Hc. regular

3111. 5333, colonies 3—5 mm., s. 600—1000 μ, hc. globose, on Melastomataceae *memecyli* No. 281.

3111. 4233, colonies 2—4 mm., s. 500—600 μ, hc. globose, on unknown host . *samarensis* No. 282.

3111. 3222, s. 300—500 μ, hc. globose, on Anonaceae . . . . . *popowiae* No. 283.

3111. 3222, colony loose, mycelium crooked, s. 196—390 μ, hc. globose, on Leguminosae . . . . . *meibomiae* No. 284.

3111. 3221, colonies 1—3 mm., loose, mycelium straight, s. 200—250 μ, hc. globose-ovate, on Leguminosae . . . *pithecolobii* No. 285.

3111. 3222, colonies 2—4 mm., s. 250—375 μ, hc. globose, on Goodeniaceae . *scaevolae* No. 286.

3111. 3221, colonies 5 mm., s. 200—250 μ, hc. globose, parasitic, on Bignoniaceae *gnathonella* No. 287.

3111. 3221, colonies 3—10 mm., s. 90—125 μ, hc. sub-globose, on Bignoniaceae *shropshiriana* No. 288.

3111. 2231, colonies 1 mm., mycelium pale, crooked, s. 180—230 μ, ch. alternate, at the angles, hc. globose, on Convolvulaceae . . . . . *caymanensis* No. 289.

3111. 5221, s. 200—250 μ, hc. globose to sub-globose, on Santalaceae . . . . *exocarpiae* No. 290.

3111. 53--, s. 215—390 μ, hc. globose, on Santalaceae . . . . . *polytricha* var. *abyssinica* No. 291.

3111. 2121, colonies 1—2 mm., s. 220—270 μ, hc. subglobose, on Labiatae . *microspora* No. 292.

3111. 3221, colonies 1—3 mm., s. 120—200 μ, hc. sub-globose, on Euphorbiaceae . . . . . *ramosii* No. 293.

3111. 3221 on Euphorbiaceae . . . . *longispora* No. 294.

3111. 3221, s. 150—280 μ, hc. sub-globose, on Rutaceae . . . . . *monnierae* No. 295.

3111. 4333, s. 350—600 μ, hc. cylindric-clavate, on Rutaceae . . . . . *macropoda* No. 296.

3111. 2221, s. 150—200 μ, hc. ovate, on Apocynaceae . . . . . *simillima* No. 297.

3111. 3222, colonies 1—3 mm., mycelium crooked, s. 230—400 μ, hc. ovate to globose, close, on Apocynaceae . . . *mandevillae* No. 298.

3111. 3221, colonies 1—4 mm., s. 185—215 μ, hc. sub-globose, ovate, truncate, mycelium anastomosing, on Anonaceae *anonaceearum* No. 299.

3111. 3222, colonies 5—10 mm., mycelium crooked, s. 320—350 μ, hc. oblong-ovate, sub-globose, on Myrtaceae . . . . . *olecranonis* No. 300.

3111. 3121, colonies 1—5 mm., strongly parasitic, mycelium not very crooked, s. 200 μ, hc. sub-globose, elliptical, on Rubiaceae . . . . . *ouroupariae* No. 301.

3111. 3221, colonies 1—3 mm., s. 250—300 μ, hc. elliptical, on Rubiaceae . . *psychotriae* No. 302.

3111. 4121, mycelium very loose, s. 150—230 μ, hc. ovate, on Rubiaceae . . *eveae* No. 303.

3111. 5224, colonies large, s. 700—1110 μ, hc. ovate, oblong, on Rubiaceae . . *malaneae* No. 304.

| | | |
|---|---|---|
| 3111. 4222, colonies 2—4 mm., arachnoid, dense, s. 400—500 μ, hc. oblong, on Rubiaceae . . . . . | *vicina* | No. 305. |
| 3111. 2111, colonies 1—3 mm., s. 275 μ, perithecium 90—110 μ, hc. globose, on Rubiaceae . . . . . | *amphigena* | No. 306. |
| 3111. 2121, colonies 2—5 mm., thin, s. 180—215 μ, hc. sub-globose to elliptical, on Gesneriaceae . . . . . | *columneae* | No. 307. |
| 3111. 4223, colonies small, mycelium crooked, s. 400—700 μ, hc. globose, ovate, on Malpighiaceae . . . . . | *byrsonimicola* | No. 308. |
| 3111. 2223, colonies 1—2 mm., arachnoid, s. 300—600 μ, hc. globose, ovate, on Cornaceae . . . . . | *alangii* | No. 309. |
| 3111. 6332, colonies 2—5 mm., s. —400 μ, hc. globose, ovate, 15—20 μ, on Magnoliaceae . . . . . | *corallina* | No. 310. |
| 3111. 6332, spores shorter than type, 60—64 ⩽ 20—28 μ, s. longer 500 —600 μ, on Magnoliaceae . . . . . | *corallina* var. *javanica* | No. 311. |
| 3111. 3221, s. 180—240 μ, hc. clavate, spores —33 μ, on Verbenaceae . . . | *clerodendricola* | No. 312. |
| 3111. 2221, s. 150—200 μ, hc. ovate-subglobose, spores —28 μ, on Verbenaceae | *micromera* | No. 313. |
| 3111. 3221, s. —250 μ, few, hc. ovate, spores —40 μ, on Verbenaceae . . . | *sakawensis* | No. 314. |
| 3111. 3221, colonies large, s. 170—300 μ, hc. globose to ovate, on Polygonaceae | *coccolobis* | No. 315. |
| 3111. 3211, colonies 3—10 mm., s. 180—280 μ, hc. globose to ovate, on Solanaceae . . . . . | *kartaboensis* | No. 316. |
| 3111. 3211, colonies 5—10 mm., s. 250 μ, hc. globose to ovate, on Loranthaceae | *catubigensis* | No. 317. |
| 3111. 4221, s. 150—200 μ, hc. globose, ovate, on Flacourtiaceae . . . . . | *banarae* | No. 318. |
| 3111. 3221, colonies large, s. 100—175 μ, hc. globose, ovate, on Verbenaceae . | *rizalensis* | No. 319. |
| 3111. 3211, on Vitaceae . . . . . | *rizalensis* var. *panamensis* | No. 320. |
| 3111. 6332, spore ends acute, s. 300—500 μ, hc. ovoid, on Compositae . . . | *spegazziniana* | No. 321. |
| 3111. 5331, colonies 2—3 mm., s. 200—300 μ, hc. ovate, not crowded, on Myrtaceae . . . . . | *eugeniae* | No. 322. |

3111. 3221, colonies 1—5 mm., s. —250 μ, hc. oblong-ovate, not crowded, on Oleaceae . . . . . *mayepeae* No. 323.

3111. 3221, colonies 1 cm., s. 180—200 μ, not hispid, hc. ovate, on Marantaceae *marantae* No. 324.

3111. 2221, s. 150—180 μ, hc. ovate, on Verbenaceae . . . . . *paraensis* No. 325.

3111. 4242, colonies 1—3 mm., hc. ovate, on Convolvulaceae . . . . . *ambigua* var. *major* No. 326.

3111. 4221, colonies 2—3 mm., s. 200—300 μ, hc. ovate or truncate, on Loganiaceae . *strychnicola* No. 327.

3111. 3221, colonies 2—4 mm., s. 300 μ, hc. ovate to cylindrical, on Euphorbiaceae . *gymnanthicola* No. 328.

3111. 3211, colonies minute, s. 200—250 μ, spores clavate, hc. globose, on Euphorbiaceae . . . . . *gymnanthicola* var. *manihot* No. 329.

3111. 5333, colonies 4 mm., s. 500—700 μ, hc. elongate, on Meliaceae . . . . . *platysperma* No. 330.

3111. 4222, colonies tenuous, spore end cells small, s. 200—400 μ, very crooked, clustered at base of perithecium, hc. oblong to ovate, on Meliaceae . . . . *obvallata* No. 331.

3111. 4222, s. 250—340 μ, not as in *M. obvallata*, spore cells equal, hc. oblong, on Meliaceae . . . . . *leptochaeta* No. 332.

3111. 4221, colonies 2—4 mm., s. 250—300 μ, hc. ovate to ovate-oblong, on Araliaceae . . . . . *irosinensis* No. 333.

3111. 3221, colonies 1—6 mm., s. 90 μ, only near base of perithecium, hc. ovate-pyriform, on Schizaeaceae . . . . . *pteridicola* No. 334.

3111. 6334, colonies 1—2 cm., amphigenous, mycelium straight, s. 1400 μ, hc. clavate, on Lauraceae . . . . . *magna* No. 335.

3111. 3232, colonies 1—5 mm., s. 250—400 μ, hc. clavate, on Anacardiaceae . *lanigera* No. 336.

3111. 4233, colonies 2—3 mm., s. 400—650 μ, on Anacardiaceae . . . . . *chilensis* No. 336a.

3111. 4223, colonies ½—2 cm., s. 300—600 μ, hc. oblong, stipe long, on Anacardiaceae . . . . . *semecarpi* No. 337.

3111. 4232, colonies 2—8 mm., perithecia large, s. 100—400 μ, hc. clavate, on Euphorbiaceae . . . . . *colliguajae* No. 338.

3111. 4231, colonies 1—3 mm., s. 200—300 μ, hc. clavate, on Leguminosae . . *gleditschiae* No. 339.

3111. 3221, s. 180—200 μ, disk 75 μ, hc. clavate, on Leguminosae . . . . . *holocalicis* No. 340.

3111. 4222, colonies 2—3 mm., s. 300—500 μ, perithecium very rough, hc. pyriform, on Leguminosae . . . . . *erythrinae* No. 341.

3111. 4221, s. 200—300 μ, hc. clavate, antrorse, distant, on Apocynaceae . . *tabernaemontanae* No. 342.

3111. 4221, on Apocynaceae . *tabernaemontanae* var. *forsteroniae* No. 343.

3111. 3221, s. 200—250 μ, hc. ovate or elliptic, on Apocynaceae . . . . . *euopla* No. 344.

3111. 3211, s. 150—250 μ, hc. clavate, on Sapindaceae . . . . . *integriseta* No. 345.

3111. 3221, colonies 5—15 mm., disc present, s. 240—300 μ, hc. sub-globose, ovate, on Sapindaceae . . . . *integriseta* var. *stevensii* No. 346.

3111. 3221, s. 200—300 μ, few, hc. ovate, oblong-ovate, on Sapindaceae . *integriseta* var. *lepisanthea* No. 347.

3111. 3242, colonies 1—3 mm., s. 300 μ, not septate, hc. pyriform, on Labiatae *ambigua* No. 348.

3111. 3221, colonies 1—2 mm., s. 150 μ, hc. pyriform, crowded, on Oleaceae . *mayepeicola* No. 349.

3111. 4321, colonies 4—8 mm., s. 75—100 μ, from disk, hc. pyriform, on Aquifoliaceae . . . . . *yerbae* No. 350.

3111. 3211, colonies 3—5 mm., s. 100—130 μ, only on the disk, hc. pyriform, on Leguminosae . . . . . *calopogonii* No. 351.

3111. 5233, colonies 1—3 mm., s. 650—850 μ, hc. cylindrical, globose, 16—20 μ, on Solanaceae . . . . . *cestri* No. 352.

3111. 2221, colonies 2—8 mm., s. 100—175 μ, hc. oval, on Bignoniaceae . . . *peruviana* No. 353.

3111. 2111, more numerous setae and irregular mycelium, on Bignoniaceae *peruviana* var. *irregularis* No. 354.

3111. 6333, colonies amphigenous, 3—6 mm., s. 600—800 μ, hc. oblong, on Ebenaceae . . . . . *megalocarpa* No. 355.

3111. 4223, colonies 2—10 mm., s. 200—800 μ, hc. cylindrical, on Sapotaceae . *lucumae* No. 356.

3111. 2221, s. 170—230 μ, hc. cylindric, on Flacourtiaceae . . . . . *xylosmae* No. 357.

3111. 5223, colonies 1—10 mm., s. —625 μ, few, hc. cylindrical, pyriform, on Myrsinaceae . . . . . *myrsinacearum* No. 358.

3111. 3223, s. 300—600 μ, hc. oblong, on Sapindaceae . . . . . *colladoi* No. 359.

3111. 5332, colonies 1—3 mm., s. 300—460 μ, hc. cylindrical, 22 × 11 μ, on Anonaceae . . . . . *xylopiae* No. 360.

3111. 3233, s. 600—700 μ, hc. cylindrical, on Oleaceae . . . . . *jasminicola* No. 361.

3111. 4212, colonies 2—5 mm., s. 320—380 μ, perithecia small, hc. cylindrical, on Euphorbiaceae . . . . . *euphorbiae* No. 362.

3111. 2222, colonies 2—5 mm., s. 200—350 μ, hc. oblong to ovate, or pyriform, on Araceae . . . . . *alocasiae* No. 363.

3111. 4222, colonies 2—4 mm., dense to crustose, s. 185—310 μ, hc. oblong, crowded, on Myrtaceae . . . . . *hawaiiensis* No. 364.

3111. 4221, colonies 1—3 mm., s. 250—300 μ, hc. cylindrical, on unknown host . . . . . *mitchellae* var. *orthopus* No. 365.

3111. 6233, colonies 2—5 mm., hc. often bent, ms. 332—664 μ, obtuse, on Ulmaceae . . . . . *celtidicola* No. 365a.

Hc. irregular or lobed

3111. 5234, colonies 1—2 cm., s. 800—1200 μ, hc. globose or lobed, on Ulmaceae . . . . . *celtidiae* No. 366.

3111. 4223, colony —1 cm., s. 800—1000 μ, hc. ovoid or irregular, few, on Rubiaceae *longiseta* No. 367.

3111. 4222, colonies 3—10 mm., s. 230—460 μ, hc., sub-globose, cylindrical or irregular, on Rubiaceae . . . . . *alibertiae* No. 368.

3111. 3223, s. 400—550 μ, hc. angular-globose or truncate, but not lobed, on Gramineae . . . . . *panicicola* No. 369.

3111. 3221, colonies 1—2 mm., dense, s. 175—240 μ, hc. globose or irregular, on Gesneriaceae . . . . . *pumila* No. 370.

3111. 5222, s. 300—400 μ, hc. ovate or angular, on Rubiaceae . . . . . *woodiana* No. 371.

3111. 4221, s. 280—300 μ, hc. ovate, entire or lobed, on Myrtaceae . . . . . *laxa* No. 372.

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| 3111. 3223, colonies 5—10 mm., s. —700 µ, hc. ovate, pyriform or angular, on Piperaceae . . . . . | *paucipes* | No. 373. |
| 3111. 3111, colonies 3—4 mm., arachnoid, s. 60—100 µ, hc. ovate, sub-lobed, on Leguminosae . . . . . | *subtortuosa* | No. 374. |
| 3111. 5332, colonies 1—1,5 mm., mycelium sinuous, s. 4—6, 200—250 µ, few, hc. ovate or lobed, on Rutaceae . . . . . | *thuemeniana* | No. 375. |
| 3111. 4222, colonies 1—10 mm., s. 200—270 µ, often uncinate, hc. pyriform, angular, on Combretaceae . . . . . | *nigra* | No. 376. |
| 3111. 3223, s. diform, a 550 µ, b 150 µ, hc. irregular, on Sapindaceae . . . . | *equadorensis* | No. 377. |
| 3111. 2221, s. 200—250 µ, hc. irregular, sub-globose, usually curved, on Leguminosae . . . . . | *chamaecristae* | No. 378. |
| 3111. 4222, colonies 5 mm., s. 400—500 µ, hc. clavate, sub-lobed, stipe 6—10 µ, on Ranunculaceae . . . . . | *knowltoniae* | No. 379. |
| 3111. 4332, colonies 1—3 mm., s. 200—475 µ, hc. clavate, lobed, on Sterculiaceae . . . . . | *pterospermi* | No. 380. |
| 3111. 4223, colonies 5—6 mm., s. 550—700 µ, hc. sub-lobed or truncate, on Apocynaceae . . . . . | *carissae* | No. 381. |
| 3111. 6333, colonies 1—3 cm., s. 540—620 µ, hc. very irregular, on Anacardiaceae . . . . . | *holigarnae* | No. 382. |
| 3111. 4232, mycelium crooked, s. 400 µ, hc. cylindrical, irregular, on Leguminosae . . . . . | *tamarindi* | No. 383. |
| 3111. 4231, colonies 10 mm., s. 150—230 µ, hc. oblong or irregular, on Loranthaceae . . . . . | *visci* | No. 384. |
| 3111. 3223, s. 400—600 µ, hc. 1—3 lobed, on Gramineae . . . . . | *panici* | No. 385. |
| 3111. 4223, colonies 2—4 mm., hc. regular, oblong-clavate, s. 500—650 µ, on Euphorbiaceae . . . . . | *sauropicola* | No. 386. |
| 3111. 3222, colonies 1—2 cm., s. 250—400 µ, hc. clavate to irregular, few, on Melastomataceae . . . . . | *oligopoda* | No. 387. |

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| 3111. 4222, ch. alternate, rare, stalk cell long, hc. irregular, on Melastomataceae | *brachycera* | No. 388. |
| 3111. 4221, colonies 5—10 mm., densely black, s. 200—275 μ, on fallen twigs . | *aliena* | No. 389. |
| 3111. 5321, colonies 1—3 mm., s. 275—300 μ, hc. ovate or lobed, on Passifloraceae . . . . . | *aristata* | No. 390. |
| Hc. not described | | |
| 3111. 4231, colonies 2 mm., s. 55—60 μ, on Euphorbiaceae . . . . . | *heveae* | No. 391. |

No. 273. **Meliola lisianthi** Stevens & Tehon, Mycol. **18**: 15. 1926.

On Gentianaceae: Lisianthus.

Type locality: Wismar, British Guiana, Stevens *316*.

Citation: 266*.

New record: On Gentianaceae ind. Costa Rica, El Alto, July 6, 1923, *279*, on Chelonanthus acutangulus. Costa Rica, El Alto, Sept. 6, 1923, *246*.

The Costa Rican material differs slightly from that from Guiana in that the spores are 36 ⩽ 14 μ and the setae 300—390 μ.

No. 274. **Meliola anonae** n. sp.

Colony epiphyllous, circular, 2—5 mm. in diameter. Mycelium slender, 6 μ, straight, branching at acute angles. Capitate hyphopodia alternate. Stalk cell short, 3—4 μ; head cell globose, regular, 11 μ. Mucronate hyphopodia ampulliform.

Perithecial setae none. Mycelial setae 185—215 μ, 8—9 μ thick at base, usually very slightly enlarged at tip, slightly curved. Perithecia globose, smooth, 90—125 μ. Asci evanescent. Spores 4-septate, 29—32 ⩽ 11—15 μ.

Group number 3111. 3221. Fig. 41.

On Anonaceae: Anona purpurea. Panama, Mandingo, Oct. 15, 1924, *1238*, Paitilla Point, Sept. 8, 1924, *342*.

This differs from all forms described on the Anonaceae in the character of the swollen setal tips, in which it resembles *M. clavulata* and from which species it differs in many regards.

No. 275. **Meliola crescentiae** n. sp.

Colony epiphyllous, black, dense, irregular, 2—4 mm. across. Mycelium straight. Capitate hyphopodia alternate. Stalk cell short, 3—4 μ; head cell sub-globose to ovoid, about 9 μ. Mucronate hyphopodia ampulliform, often opposite.

Perithecial setae none. Mycelial setae few, arising mostly near the base of the perithecium, black, substraight, 170—180 μ, slightly swollen at the tip. Perithecia 123—140 μ in diameter, smooth. Asci evanescent. Spores 4-septate, 28 ⩽ 9 μ.

Group number 3111. 2121. Fig. 42.

On Bignoniaceae: Crescentia sp. Trinidad, Cumuto, Aug. 18, 1922, *940*. On Heterophragma roxburghii. India, Dharwar, Bombay, Dec. 1918, Leg. Sedgwick.

Citation: 264a.

No. 276. **Meliola clavulata** Winter, Hedw. **25**: 98. 1886.

On Convolvulaceae: 348, 349, 83, 184, Ipomoea 307, 221, 261, 271, 253, 331a. On Leguminosae: Ormocarpum 21, 22.

Type locality: St. Thomas, Africa, Moller, on Convolvulaceae.

Distribution: Africa 348, 249, 21, 22, 83; Brazil 184; Porto Rico 261, 253; India 307; Philippines 271; Mexico 221; Santo Domingo 331a.

Citations: 348*, 83*, 261*, 230a.

Specimen: Winter, co-type.

New records: On Ipomoea, Costa Rica, Columbiana, July 19, 1923, *573*, *563*, Siquirres, July 31, 1923, *663*; Panama, France Field, Oct. 30, 1924, *957*; British Guiana, Tumatumari, July 12, 1922, *228*, Kartabo, July 23, 1922, *617*, *633*, *632a*. On Ipomoea glabra. Trinidad, St. Clair, Aug. 15, 1922, *897*.

No. 277. **Meliola clavulata** var. **batatae** n. var.

Colony circular, black, 1—2 mm. in diameter. Mycelium moderately dense, crooked, irregularly branched, dark. Capitate hyphopodia alternate, short-stalked; head cell globose, 10—14 μ. Mucronate hyphopodia bottle-shaped.

Perithecial setae none. Mycelial setae 280—308 μ, simple, straight or crooked, tip obtuse. Perithecia slightly rough, 60—138 μ. Spores 4-septate, 29 ⩽ 14—16 μ.

Group number 3111. 3222. Fig. 43.

On Convolvulaceae: Ipomoea batatas. British Guiana, Tumatumari, July 11, 1922, *214* (type), July 12, 1922, *229*; Kartabo, July 23, 1922, *632*. On Ipomoea sps; Costa Rica, Experiencia Farm, July 18, 1923, *516*, Peralta, July 11, 1923, *344*, July 12, 1923, *355*, *348*; Ecuador, Terecita, Oct. 29, 1924, *30*; Panama, Summit, Sept. 6, 1924, *329*, Pedro Miguel, Sept. 9, 1924, *392*, Chiva-Chiva trail, Sept. 18, 1924, *600*, *616*, Baille Mona, Sept. 20, 1924, *683*, Gatun, Sept. 26, 1924, *836*, Oct. 11, 1924, *1210*, Las Cruces Trail, Sept. 28, 1924, *866*, Mandingo, Oct. 15, 1924, *1333*, *1345*.

This form has essentially the mycelium and capitate hyphopodia of *M. clavulata* but the setae are obtuse. The perithecia are smaller and rougher than those of *M. clavulata* and *M. malacotricha*.

No. 278. **Meliola hercules** v. Höhnel, Sitzber. K. Akad. Wiss. Wien (Vienna) Math. Natur. Kl. **118**: 316. 1909.

On Gramineae: Anthistiria (?).

Type locality: Buitenzorg, Java.

No. 279. **Meliola hispida** n. sp.

Colonies epiphyllous, circular, black, dense, 1—3 mm. in diameter, loosely attached. Mycelium thick, 10—11 μ, arranged regularly, angles acute,

opposite or alternate. Capitate hyphopodia alternate. Stalk cell 7—14 μ; head cell clavate, oblong or very irregularly lobed, 25 ⩽ 18 μ. Mucronate hyphopodia ampulliform, few, small, 14 μ long.

Perithecial setae none. Mycelial setae 600—780 μ long, 14—15 μ thick, black, straight, stiff, obtuse at tip, hispid throughout most of the upper part and often well toward the base, with small sharp teeth, about 1 μ high and 8 μ apart, sometimes somewhat pale toward the tip. Perithecia globose, smooth, 185—200 μ in diameter. Asci evanescent. Spores 4-septate, 54—61 ⩽ 18—22 μ, pale, constricted.

Group number 3111. 6223. Fig. 44.

On Marantaceae: Calathea macrosepala. Costa Rica, Sabario, Aug. 8, 1923, *797*.

This fungus is remarkable for its very thick mycelial threads and setae, but especially for the hispid character of the setae. A form which agrees in colony and setae with the above, but which differed in that the setae were very few and in that the mycelium was of very different character occured on Calathea, *569*, Costa Rica, Columbiana, July 19, 1923.

No. 280. **Meliola styracicola** Spegazzini, An. Mus. Nac., Buenos Aires **23**: no. 1344. 1912.

On Styracaceae: Styrax.

Type locality: Argentine.

Citation: 255.

This species according to Spegazzini (255) is without setae in the hypophyllous colonies. The conic papillae of the perithecium approach the larviform.

Specimen: the type.

No. 281. **Meliola memecyli** Sydow, H. & P., Annal. Mycol. **12**: 198. 1914.

On Melastomataceae: Memecylon.

Type locality: India.

Distribution: India 295, 288; Philippines 301, 275, 288.

Specimens: Syd., Fungi Exot. Exs. *377*, *251*, Phil. Bur. Sci. *21910*.

No. 282. **Meliola samarensis** Yates, Philippine Jour. Sci., C. Bot., **12**: 368. 1917.

On unknown host.

Type locality: Samar, Philippines, Bur. Sci. *24919* Ramos.

Specimen: the type.

No. 283. **Meliola popowiae** Doidge, Trans. Roy. Soc. So. Africa **8**: 142. 1920.

On Anonaceae: Popowia 51, Anona 331a.

Type locality: Natal, So. Africa, Doidge *11587*.

Distribution: Natal 51; Santo Domingo 331a.

Citation: 51*.

No. 284. **Meliola meibomiae** Stevens & Tehon, Mycol. **18**: 7. 1926.

On Leguminosae: Meibomia.

Type locality: British Guiana, Stevens *434*.

Citation: 266*.

No. 285. **Meliola pithecolobii** Stevens & Tehon, Mycol. 18: 9. 1926.
On Leguminosae: Pithecolobium.
Type locality; Trinidad, Stevens *906*.
Citation: 266.

No. 286. **Meliola scaevolae** Sydow. H. & P., Annal. Mycol. 12: 551. 1914.
On Goodeniaceae: Scaevola.
Type locality: Tayabas, Philippines, Bur. Sci. *21212a*.
Specimen: the cotype, Phil. Bur. Sci. *21212*.

No. 287. **Meliola gnathonella** Stevens & Tehon, Mycol. 18: 16. 1926.
On Bignoniaceae: Jacaranda.
Type locality: British Guiana, Stevens *231*.
Citation: 266*.

No. 288. **Meliola shropshiriana** n. sp.

Colonies epiphyllous, 3—10 mm. in diameter. Mycelium 6 μ in diameter, sinuous. Capitate hyphopodia alternate, close, 25 μ, or distant, 80 μ Stalk cell short, 3—7 μ; head cell sub-globose, 11 μ. Mucronate hypho podia ampulliform, few, 18 × 7 μ.

Perithecial setae none. Mycelial setae few, 2—6, black, 90—125 μ, 7 μ thick at base, grouped around the perithecia, arising from a subicular disk, curved, often very slightly enlarged at the tip, obtuse, often coiled at tip Perithecia globose, smooth, 138—155 μ, on radiate discs. Asci evanescent. Spores 4-septate, 32—36 × 14 μ.

Group number 3111, 3221. Fig. 45.

On Bignoniaceae indet. Panama, Corozal, Trail L., Aug. 30, 1924, *115* (type) and *110*, Las Cruces Trail, Sept. 2, 1924, *153*, *169*.

The setae may in some instances be perithecial outgrowths, but in all cases distinctly seen they came from the subicular disk. The distinctive character is in the setae, limited to the disk.

No. 289. **Meliola caymanensis** Ellis & Everhart, in Millspaugh, Col. Mus. Pub. Bot., Ser. 1, 2: 15. 1900.
On Convolvulaceae: Pharbitis.
Type locality: Grand Cayman Island, near Georgetown.
Citation: 139*.
Specimen: the type.

Though originally described as without mycelial setae the type specimen is accompanied by drawings showing setae and they are also evident on the specimen though in very small numbers, 180—230 μ long, obtuse. A most characteristic feature of the species is its angled mycelium with a capitate hyphopodium at each angle.

No. 290. **Meliola exocarpiae** Yates, Philippine Jour. Sci., C. Bot., 13: 368. 1918.
On Santalaceae: Exocarpus.
Type locality: Luzon, Philippines, Bur. Sci. *27840*, Ramos.
Specimen: the type. Fig. 46.

No. 291. **Meliola polytricha** Kalchbrenner & Cooke, var. **abyssinica** Hennings, Bul. Herb. Boissier, Sér. 1: 117. 1893.

On Santalaceae: Osyris.

Type locality: Abyssinia. Fig. 47.

No. 292. **Meliola microspora** Patouillard & Gaillard, Bul. Soc. Myc. France 4: 104. 1888.

*Meliola hyptidis* Sydow, H. & P., Annal. Mycol. 8: 36. 1910.

*Meliola cavitensis* Yates, Philippine Jour. Sci., C. Bot., 13: 366. 1916.

On Verbenaceae: Aegiphila 101. On Scrophulariaceae 101, 334. On Labiatae 83, Hyptis 283, 284, 4, 5, 301, Coleus 354. On Convolvulaceae 184. On Bignoniaceae: Tecoma 184. On Apocynaceae: Forsteronia 184. On Loganiaceae: Spigelia 184. On Rubiaceae: 184. On Malvaceae: Sida 198.

Type locality: Venezuela *262*, on Labiatae.

Distribution: Venezuela 83; Amazon 101; Brazil 184; Philippines 198, 283, 284, 4, 5, 301, 354.

Citation: 83*.

Specimens: the type, Ule Myc. Univ. *61*. Union So. Afr. *1760*. Syd., Fungi Exot. Exs. *373—374*. Phil. Bur. Sci. *24005*, the type of *M. cavitensis*.

I see no sufficient distinction between *M. hyptidis* and *M. microspora*, and little or no distinction between these and *M. ambigua*, but of the last I have no type specimen. Study of the type of *M. cavitensis* also shows no distinction though if the numerous spores in the ascus can be demonstrated that fact may be significant.

No. 293. **Meliola ramosii** Sydow, H. & P., Annal. Mycol, 12: 552. 1914.

On Euphorbiaceae: Homonoia.

Type locality: Luzon, Philippines, Bur. Sci., S. *246*, *20993*. Fig. 48.

Citations: 301, 354, 275.

Specimens: Baker, Fungi Mal. *552*, Syd., Fungi Exot. Exs. *378*, Phil. Bur. Sci. *29079*.

No. 294. **Meliola longispora** (Gaillard) n. comb.

*Meliola malacotricha* Spegazzini var. *longispora* Gaillard, Le Gen. Mel., 82. 1892.

On Euphorbiaceae: Croton. On Sapindaceae: Paullinia 184, Serjania 206.

Type locality: St. Catharina, Brazil, Ule *1006*, on Croton.

Citation: 166.

Specimens: Rab., Wint. & Pazsch., Fungi europ. *3851*, Ule, Myc. Bras. *2272*.

The specimen F. europ. *3851* has alternate hyphopodia, setae obtuse, mycelium irregular.

Sydow says this form is near *M. ramosii* but not identical, that the spores of *M. ramosii* are smaller.

No. 295. **Meliola monnieriae** n. sp.

Colony amphigenous, mainly epiphyllous. Mycelium crooked, branching opposite or irregular. Capitate hyphopodia alternate or unilateral. Stalk

cell short, 3—4 μ; head cell regular, sub-globose to ovoid, 12—9 μ. Mucronate hyphopodia mostly opposite, 14—18 μ long, neck 9 μ, narrow.

Perithecial setae none. Mycelial setae few, clustered at the base of the perithecium, 150—280 μ long, simple, slightly curved, obtuse. Perithecia 107—140 μ, globose, smooth. Asci evanescent. Spores 4-septate, 28—32 × 11—13 μ.

Group number 3111. 3221. Fig. 49.

On Rutaceae: Monnieria trifolia. British Guiana, Kartabo, July 21, 553.

No. 296. **Meliola macropoda** Sydow, H., Annal. Mycol. 24: 296. 1926.

On Rutaceae: Zanthoxylon.

Type locality: San Pedro de San Ramon, Costa Rica 1178.

Specimen: the type.

No. 297. **Meliola similima** Ellis & Everhart, in Hitchcock Ann. Rept. 9. Mo. Bot. Gard. 118. 1898.

*Meliola wrightiae* Yates, Philippine Jour. Sci., C. Bot., 13: 371. 1918.

On Apocynaceae: Echites, Wrightia 354, Holarrhena 264a.

Type locality: Bahama.

Distribution: Bahama; Philippines 354; India 264a.

Citation: 277a.

Specimens: the type, the type of *M. wrightiae*.

This is in general aspect much like *M. tabernaemontanae*.

No. 298. **Meliola mandevillae** n. sp.

Colony amphigenous, small, 1—3 mm., circular. Mycelium close to lax, irregularly branched, crooked. Spot none. Capitate hyphopodia alternate, stalk cell short, 3—4 μ, head cell ovoid to globose, regular, 11 μ in diameter. Mucronate hyphopodia few.

Perithecial setae none. Mycelial setae black, crooked, obtuse, 230—400 μ long, mostly near the perithecia. Perithecia slightly rough, 155—170 μ in diameter. Asci evanescent, 2-spored. Spores 4-septate, 32—40 × 14—15 μ.

Group number 3111. 3222. Fig. 50.

On Apocynaceae: Mandevilla sp. British Guiana, Kartabo, July 23, 1922, 620 type; Panama, Corozal, Trail 17, Aug. 30, 1924, 102, Agua Clara Reservoir, Sept. 17, 1924, 553.

The most characteristic feature is perhaps in the crooked setae tapering gradually from base to apex and usually about 250—300 μ long. The hypophyllous colonies have longer setae, 600—700 μ, and are more loose and lax. The formulae therefore for hypophyllous colonies would be 3111. 3223.

No. 299. **Meliola anonaceearum** n. sp.

Colony epiphyllous, 1—4 mm. in diameter. Mycelium very crooked and anastomosing. Capitate hyphopodia solitary at the bends in the mycelium. Stalk cell short, 3—4 μ; head cell sub-globose, ovate or truncate. Mucronate hyphopodia ampulliform.

Perithecial setae none. Mycelial setae 185—215 μ, black, simple, obtuse. Perithecia globose, smooth, 107—125 μ. Asci evanescent, 2-spored. Spores 4-septate, 36—39 × 14—15 μ.

Group number 3111. 3221. Fig. 51.

On Anonaceae: Anona. Ecuador, Barranital, Nov. 17, 1924, *320*.

The very striking character of the mycelium (Fig. 51) distinguishes this from other Meliolas.

No. 300. **Meliola olecranonis** Stevens & Tehon, Mycol. 18: 15. 1926.

On Myrtaceae: Psidium.

Type locality: British Guiana, Stevens *64*.

Citation: 266*.

No. 301. **Meliola ourouparine n. sp.**

Colonies epiphyllous, black, circular, 1—5 mm. Mycelium slightly crooked, 6 μ thick, dark. Spot equalling the colony, visible from the lower side of the leaf as a dead area. Capitate hyphopodia alternate, antrorse. Stalk cell short, 3—4 μ; head cell sub-globose to elliptical, 14—18 × 10 μ. Mucronate hyphopodia ampulliform, 18 × 7 μ.

Perithecial setae none. Mycelial setae dark, about 200 μ long, 6 μ thick at base, obtuse, sometimes very slightly crenulate near the tip. Perithecia globose, smooth, 125—140 μ. Asci evanescent. Spores 4-septate, 28—32 × 10 μ.

Group number 3111. 3121. Fig. 52.

On Rubiaceae: Ourouparia tomentosa (Uncaria). Costa Rica, Sabario, Aug. 8, 1923, *800*.

The species differs decidedly from *M. uncariae* in possessing setae and in having alternate hyphopodia; also in its parasitism which is quite striking. It differs from *M. anceps* also described on this host genus in that its setae are always simple, and from other nearly related species in its parasitism.

No. 302. **Meliola psychotriae** Earle, Bul. N. Y. Bot. Gard. **3**: 308. 1905.

*Meliola macrospora* Patouillard & Gaillard var. *africana* Doidge, Trans. Roy. Soc. So. Africa **5**: 732. 1917.

On Rubiaceae 9, Psychotria 58, Borreria 261, Gonzalagunia 261, Erithalis 58, 261, Guettarda 261, Randia 29, 261, Chiococca 261, Coprosma 261, Galopina 45. On Labiatae: Plectranthus 45. On Acanthaceae: Isoglossa, Barleria 45.

Type locality: Porto Rico, Heller *6252*, on Psychotria.

Distribution: Porto Rico 58, 261, 29; Congo, Africa 9; South Africa 45, Santo Domingo 331 a.

Citations: 251, 45*.

Specimens: the type, Union So. Afr. *12441*, *11576*.

New records: On Rubiaceae: Sabicea hirsuta. Ecuador, Terecita, Oct. 29, 1924, *74*. On Rondeletia amoena. Costa Rica, Cartago, Jan. 23, 1923, *93*. On Hamelia erecta. Panama, Mandingo, Oct. 15, 1924, *1341*. On Acanthaceae indet. Panama, Culebra, Oct. 2, 1924, *912*. (This specimen agrees

well with one from South Africa from Miss Doidge, on Galopina *1760*, in its quite characteristic mycelium, hyphopodia and setae.) On Coccocypselum sp. British Guiana, Kartabo, July 23, 1922, *604*.

No. 303. **Meliola eveae** n. sp.

Colony hypophyllous, arachnoid, diffuse, indefinite, very loose. Mycelium very loose, smooth. Capitate hyphopodia alternate, distant, 90 μ. Stalk cell 3—7 μ long; head cell regular, ovoid, 14—18 × 7—9 μ. Mucronate hyphopodia short, ampulliform.

Perithecial setae none. Mycelial setae few, black, simple, straight, obtuse, 150—230 μ. Perithecia 108—150 μ, smooth. Spores 4-septate, 43 × 8 μ, strongly constricted.

Group number 3111. 4121. Fig. 53.

On Rubiaceae: Evea sp. British Guiana, Tumatumari, July 9, 1922, *87*, *93*. On Cephaelis muscosa. Trinidad, Cumuto, Aug. 16, 1922, *945* (type).

Though near *M. woodiana* in formula it is a very different species in the character of its colony and its mycelium.

No. 304. **Meliola malaneae** Stevens & Tehon, Mycol. 18: 17. 1926.

On Rubiaceae: Malanea, Psychotria.

Type locality: Trinidad, Stevens *911*.

Citation: 266*.

New records: On Rubiaceae ind. Panama, Gamboa, Aug. 16, 1923, *1093*. On Psychotria sp. Ecuador, Terecita, Oct. 29, 1924, *83*; Costa Rica, Experiencia Farm, July 18, 1923, *550*. On Palicourea sp. Costa Rica, Port Limon, Aug. 10, 1923, *877*.

No. 305. **Meliola vicina** Sydow, H., Annal. Mycol. 21: 95. 1923.

On Rubiaceae: Timonius.

Type locality: Palawan, Philippines *8886* Merrill.

Specimen: the type.

No. 306. **Meliola amphigena** Stevens & Tehon, Mycol. 18: 16. 1926.

On an undetermined Rubiacea.

Type locality: British Guiana, Stevens *168*. Fig. 54.

New records: On Rubiaceae: Borreria sp. Costa Rica, Peralta, July 13, 1923, *472*, Peralta, July 12, 1923, *365*. On Isertia. Panama, Brazos Brook Reservoir, Sept. 22, 1924, *737*, Frijoles, Oct. 14, 1924, *1268*, *1270*.

No. 307. **Meliola columneae** n. sp.

Colonies hypophyllous, 2—5 mm. Mycelium thin, very crooked, 4—5 μ, capitate hyphopodia alternate, stalk cell short, 3—4 μ; head cell elliptical or sub-globose, regular, 9—14 × 7—9 μ, mucronate hyphopodia ampulliform, perithecial setae none, mycelial setae dark, simple, obtuse, 180—215 μ, quite uniform in length, 7 μ thick at base. Perithecia globose, smooth, 120 μ. Asci evanescent, spores 4-septate, 25—28 × 7—8 μ.

Group number 3111. 2121. Fig. 55.

On Gesneriaceae: Columnea heterophylla. Costa Rica, Siquirres, July 31, 1923, *677*.

No. 308. **Meliola byrsonimicola** Stevens & Tehon, Mycol. **18**: 10. 1926.
On Malpighiaceae: Byrsonima.
Type locality: British Guiana, Stevens *333*.
Citation: 266*.
No. 309. **Meliola alangii** Sydow, H. & P., Annal. Mycol. **14**: 355. 1916.
On Cornaceae: Alangium.
Type locality: Los Baños, Philippines, Baker *4019*.
Specimen: Baker, Fungi Mal. *247*.
No. 310. **Meliola corallina** Montagne, in Gay, Hist. Chile **7**: 472. 1850.
*Dothidea corallina* Montagne, Ann. Sci. Nat., Ser. 2, **3**: 347. 1835.
*Asterina compacta* Léveillé, Ann. Sci. Nat. 60. 1845.
*Meliola compacta* (Léveillé) Spegazzini (not Earle). Fungi Chilenses **25**: 1910.
On Magnoliaceae: Drymis 145, 147, 154, 83, 184, 249, 255, 248, 25.
Type locality: Juan Fernandez, Chile, Bertero.
Distribution: Chile 145, 154, 248, 12; Brazil 184; Cuba 147; Juan Fernandez 12, 83; Argentine 249, 255; Australia 31.
Citations: 145*, 154*, 83*, 69*, 248*, 25*, 15*, 106*, 251a.
Specimen: Gay, Chile.
A specimen from Queensland reported under this name by Berkeley and Broome became *M. berkeleyi* Pat. The study of Patouillard (154) was made from Drymis from Chile collected by Bertero and showed the spores 4-septate. The type is in the Museum of Paris.
No. 311. **Meliola corallina** Montagne var. **javanica** v. Höhnel, Sitzber. K. Akad. Wiss. Wien (Vienna) Math.-natur. Kl. **118**: 1172. 1909.
On Magnoliaceae: Magnolia.
Type locality: Java.
Citations: 106*, 109.
No. 312. **Meliola clerodendricola** Hennings, Hedw. **37**: 288. 1898.
On Verbenaceae: Clerodendron 92, 294, 4, 354.
Type locality: Central Africa, Schweinfurth *2753*.
Distribution: Africa 92; Philippines 294, 4, 5, 354.
Specimens: the type. Syd., Fungi Exot. Exs. *171, 370*. Phil. Bur. Sci. *171*.
No. 313. **Meliola micromera** Sydow, H. & P., Annal. Mycol. **12**: 552. 1914.
On Verbenaceae: Gmelina.
Type locality: Bulacan, Philippines, Bur. Sci. *21807* Ramos.
Citation: 354.
Specimen: the type, Phil. Bur. Sci. *25895*.
This species is closely like No. 312 and perhaps the two should be united. Both closely resemble No. 314 but appear to have smaller spores. This is perhaps identical with or a variety of *M. sakawensis*.
No. 314. **Meliola sakawensis** Hennings, Hedw. **43**: 141. 1904.
*Meliola sakawensis* Hennings var. *longispora* Beeli, Bul. Jard. Bot. Bruxelles **7**: 98. 1920.

On Verbenaceae: Clerodendron 100, 9, Vitex 264a.

Type locality: Japan.

Distribution: Japan 100; Philippines 198, 4, 301; Congo, Africa 9; India 264a.

Specimens: the type. Phil. Bur. Sci. *25346*. The type of the variety *longispora*.

No. 315. **Meliola coccolobis** Stevens & Tehon, Mycol. 18: 5. 1925.

On Polygonaceae: Coccoloba.

Type locality: British Guiana, Kartabo, Stevens *655*.

Distribution: British Guiana; Trinidad.

Citation: 266*.

No. 316. **Meliola kartaboensis** n. sp.

Colony dense, black, 3—10 mm. in diameter, amphigenous, mostly epiphyllous. Mycelium crooked, dark. Spots none. Capitate hyphopodia alternate. Stalk cell short, 3—4 μ; head cell globose to ovoid, 10 μ in diameter. Mucronate hyphopodia narrow.

Perithecial setae none. Mycelial setae numerous, black, crooked, simple, obtuse, 180—280 μ. Perithecia 80—90 μ, smooth. Asci evanescent, 2-spored. Spores 4-septate, 29—32 ⩽ 10—12 μ.

Group number 3111. 3211. Fig. 56.

On Solanaceae: Solanum. British Guiana, Kartabo, July 24, 1921, *635*.

This differs from *M. capsicola*, of the group number 3111, in colony, mycelium and particularly in capitate hyphopodia; from *M. cestri* and *M. gesneriae*, both reported on the Solanaceae in both setae and spores.

No. 317. **Meliola catubigensis** Yates, Philippine Jour. Sci., C. Bot., 12: 363. 1917.

On Loranthaceae: Loranthus.

Type locality: Samar, Philippines, Bur. Sci. *24024* Ramos.

Specimen: the type.

No. 318. **Meliola banarae** n. sp.

Colony diffuse, black, epiphyllous. Mycelium sinuous, translucent, 7 μ thick. Capitate hyphopodia alternate. Stalk cell short, 3—4 μ, head cell globose to ovate, 14 μ, regular. Mucronate hyphopodia ampulliform, 21 ⩽ 6 μ.

Perithecial setae none. Mycelial setae black, obtuse, curved, 150—200 ⩽ 6 μ, few except near the perithecium. Perithecia globose when mature, smooth, 150—185 μ, borne on a radiate disk. Asci evanescent. Spores 4-septate, 43—47 ⩽ 17—18 μ.

Group number 3111. 4221. Fig. 57.

On Flacourtiaceae: Banara guianensis. Panama, New Limon, Oct. 4, 1924, *1017*, Ft. Lorenzo Trail, Oct. 10, 1924, *1189* (type).

The young perithecial disk is characteristic in that it is distinctly radiate and entire at its margin. It attains considerable size, 130 μ, before any swelling is evident.

No. 319. **Meliola rizalensis** Sydow, H. & P., Annal. Mycol. **12**: 551. 1914.

On Verbenaceae: Vitex.

Type locality: Rizal, Philippines, Bur. Sci. *294*.

Citations: 301, 116.

Specimens: the type, Syd., Fungi Exot. Exs. *379*, Phil. Bur. Sci. *23971*.

No. 320. **Meliola rizalensis** Sydow, H. & P. var. **panamensis** n. var.

Colony epiphyllous, indefinite, 1—5 mm. in diameter. Mycelium scant, slightly crooked. Capitate hyphopodia alternate, antrorse. Stalk cell short, 3—4 μ; head cell ovate, regular, 14 ⩽ 10 μ. Mucronate hyphopodia ampulliform.

Perithecial setae none. Mycelial setae 125—230 μ, obtuse, more abundant near the perithecia. Perithecia globose, smooth, —123 μ, from alveolar disks. Asci evanescent. Spores 4-septate, 30 ⩽ 11 μ.

Group number 3111. 3211. Fig. 58.

On Vitaceae: Cissus rhombifolia. Panama, Fort Randolph, 100 feet hill trail, Sept. 9, 1923, *761*.

This differs from the type in its more lax mycelium, shorter setae, located near the perithecia.

No. 321. **Meliola spegazziniana** Winter in An. Soc. Cient. Argentina **26**: no. 64. 1888.

On Compositae: 241, 211, 83, 184, 313, Moquinia 255, Chuquiragua 313. On Borraginaceae: Cordia 184.

Type locality: Paraguay, Balansa *3751*.

Distribution: Paraguay 241, 211, 83, 313; Brazil 184, 313; Argentine 255.

Citations: 83*. 263*.

Specimens: the type, Balansa *3751*, Roum., Fungi Sel. Gal. Exs. *5238*.

No. 322. **Meliola eugeniae** Sydow, H., Philippine Jour. Sci., C. Bot., **21**: 133. 1922.

On Myrtaceae: Eugenia.

Type locality: Amboina, Reliquiae Robinsonianae *2163*.

Specimen: the type. Fig. 59.

No. 323. **Meliola mayepeae** Stevens, Ill. Biol. Mono. **2**: 48. 1916.

On Oleaceae: Mayepea.

Type locality: Porto Rico, Stevens *7468*.

Citations: 261*, 215.

No. 324. **Meliola marantae** n. sp.

Fungus amphigenous; epiphyllous colonies large, 1 cm. or more wide, thin, spreading; hypophyllous colonies smaller, irregular. Perithecia smooth, about 120—140 μ in diameter. Mycelial setae more or less straight, septate, ends obtuse, about 180—200 ⩽ 3 μ; often clustered about the bases of the perithecia. Asci evanescent. Spores 4-septate, 32 ⩽ 11 μ. Mycelial branches opposite, at acute angles. Capitate hyphopodia alternate; head cell ovate, about 10 ⩽ 7 μ, basal cell short, about 3.5 ⩽ 8.5 μ. Mucronate hyphopodia opposite and alternate, light brown.

Group number 3111. 3221. Fig. 60.

On Marantaceae, British Guiana, Rockstone, July 17, 1922, *465* (type). On Maranta arundinacea. British Guiana, Tumatumari, July 12, 1922, *202*.

A species of *Helminthosporium* was found overgrowing the colonies of the type specimen. Some of the host leaves of the type specimen were spotted with an undetermined fly speck.

Citation: 215*.

No. 325. **Meliola paraensis** Hennings, Hedw., Beiblatt, **39**: 77. 1900.

On Verbenaceae: Vitex.

Type locality: Para, Amazon.

Specimen: the type.

No. 326. **Meliola ambigua** Patouillard & Gaillard var. **major** Patouillard and Gaillard, Bul. Soc. Mycol. France **4**: 105. 1888.

On Convolvulaceae: Evolvulus 160, 83.

Type locality: Venezuela.

Citations: 83*, 313.

Theißen gives the spores of this form as 50—55 ⩽ 22—25 μ, which would give a formula 3111. 53—.

No. 327. **Meliola strychnicola** Gaillard, Le Gen. Mel. 72. 1892.

On Loganiaceae: Strychnos 83, Spigelia 163.

Type locality: Congo, Africa.

Distribution: Congo, Africa 83; Ecuador 83, 163.

Citation: 83*.

Specimen: the type. Fig. 61.

New records: On Loganiaceae: Strychnos taxifera. Panama, France Field, Sept. 2, 1924, *196*, Brazos Brook Reservoir, Sept. 22, 1924, *723*.

No. 328. **Meliola gymnanthicola** Stevens, Ill. Biol. Mon. **2**: 49. 1916.

On Euphorbiaceae: Gymnanthes.

Type locality: Porto Rico, Stevens *8596*.

Citation: 230a.

No. 329. **Meliola gymnanthicola** Stevens var. **manihot** (Stevens & Tehon) n. comb. *Meliola manihot* Stevens & Tehon, Mycol. **18**: 11. 1926.

On Euphorbiaceae: Manihot.

Type locality: British Guiana, Stevens *217*.

Citations: 266*, 215.

No. 330. **Meliola platysperma** Theißen, Broteria **12**: 23. 1914.

On Meliaceae: Guarea.

Type locality: Brazil.

No. 331. **Meliola obvallata** Sydow, H., Annal. Mycol. **21**: 90. 1923.

On Meliaceae: Aglaia.

Type locality: British North Borneo, *2206* Ramos.

Specimen: the type.

This species by descriptions is distinguished from *M. leptochacta* only by the spore cells.

No. 332. **Meliola leptochaeta** Sydow, H. & P., Annal. Mycol. **15**: 187. 1917.
On Meliaceae: Vavaea.
Type locality: Luzon, Philippines, Bur. Sci. *25009* Yates. Fig. 62.
Specimen: the type.

No. 333. **Meliola irosinensis** Sydow, H., Leafl. Philippine Bot. **9**: 3118. 1925.
On Araliaceae: Boerlagiodendron.
Type locality: Sorsogon, Philippines *14526*.
Specimen: the type.

No. 334. **Meliola pteridicola** Stevens, Ill. Biol. Mono. **2**: 28. 1916.
On Schizaeaceae: Aneimia, Adiantum.
Type locality: Porto Rico, Stevens *7814*.
Citations: 261*, 29, 230a.
New records: On Adiantum macrophyllum. Costa Rica, Peralta, July 14, 1923, *484*, July 11, 1923, *333*. On Adiantum sp. Panama, Gamboa, Aug. 16, 1923, *1086*. On Adiantum petiolatum. Panama, Gamboa, Aug. 16, 1923, *1098*. On Lygodium polymorphum. Panama, Corozal, Trail 17, Aug. 30, 1924, *123*, Las Cruces Trail, Sept. 2, 1924, *164*, Ft. Randolph, 100 feet hill trail, Sept. 23, 1924, *780*. On Lygodium radiatum. Panama, France Field, Sept. 2, 1924, *209*, Oct. 3, 1924, *995*. On Lygodium sp. Panama, Agua Clara Reservoir, Sept. 17, 1924, *582*.

This species much resembles *M. tortuosa* from which it differs in its more rectilinear mycelium and in its more regular capitate hyphopodia. In the original description it was given as without mycelial setae whereas I now regard these setae as from the subicular disk, not from the perithecium, thus changing the formula to read 3111. 3221. It is possible that specimens previously reported upon Pteridophytes as *M. tortuosa* really are of this species. The perithecia are borne on beautiful radiate disks and long remain dimidiate. The setae are easily overlooked and may indeed sometimes be absent.

No. 335. **Meliola magna** n. sp.

Colonies black, circular, 1—2 cm. in diameter. Mycelium amphigenous, straight, branching at acute angles, mostly opposite, 8 μ thick. Capitate hyphopodia alternate, distant, usually 140 μ. Stalk cell long, 25 μ; head cell 25 ⩽ 20 μ, clavate, regular. Mucronate hyphopodia ampulliform, 28—46 ⩽ 7 μ, neck long.

Perithecial setae none. Mycelial setae 1400 μ, black, simple, gracefully curved, 10 μ thick at base, obtuse. Perithecia globose, smooth, 200—260 μ, originating on a radiate subicle. Asci evanescent. Spores 4-septate, 57—61 ⩽ 22 μ.

Group number 3111. 6334. Fig. 63.

On Lauraceae: Nectandra. Costa Rica, Peralta, July 12, 1923, *373*.

No. 336. **Meliola lanigera** Spegazzini, An. Mus. Nac., Buenos Aires, **19**: 327. 1909.

*Meliola spinigera* Spegazzini, An. Soc. Cient., Argentina **9**: n. 118. 1880.

*Meliola brasiliensis* Spegazzini var. *sanguineo-maculans* Rehm, in Rick Fungi Aust.-Am. 156, in Annal. Mycol. **5**: 337. 1907.

On Anacardiaceae: Lithraea 247, 254, 255, 313, Schinus 255, 205. On Myrtaceae 166.

Type locality: Argentine.

Distribution: Argentine 255, 247; Brazil 254, 242, 83, 166, 313.

Citations: 235, 133*, 251a.

Specimens: Ule *196*, Rick *156*.

No. 336a. **Meliola chilensis** Spegazzini, Bol. Acad. Nac. Cien. Argentina 25: 41. 1921.

On Anacardiaceae: Schinus.

Type locality: Chili.

No. 337. **Meliola semecarpi** Sydow, H., Annal. Mycol. 21: 95. 1923.

On Anacardiaceae: Semecarpus.

Type locality: Palawan, Philippines, Merrill *8753*.

Specimen: the type.

No. 338. **Meliola colliguajae** Spegazzini, An. Mus. Nac., Buenos Aires, 23: 40, no. 1335. 1912.

On Euphorbinceae: Colliguaja.

Type locality: Argentine.

Citation: 255.

No. 339. **Meliola gleditschiae** Spegazzini, An. Mus. Nac., Buenos Aires, 23: no. 1337. 1912.

On Leguminosae: Gleditschia.

Type locality: Argentine.

Citations: 263*, 255.

Specimen: the type.

No. 340. **Meliola holocalicis** Spegazzini, An. Mus. Nac., Buenos Aires, 32: 370. 1924.

On Leguminosae: Holocalyx.

Type locality: Argentine.

No. 341. **Meliola erythrinae** Sydow, H. & P., Annal. Mycol. 15: 185. 1917.

On Leguminosae: Erythrina.

Type locality: Luzon, Philippines, Bur. Sci. *24052* Ramos.

Citation: 116.

Specimen: the type.

The description leads one to suspect that the perithecia may bear larviform appendages, but study of the type specimen fails to show such.

No. 342. **Meliola tabernaemontanae** Spegazzini, An. Mus. Nac., Buenos Aires, 23: no. 1345, 1922.

On Apocynaceae: Tabernaemontana 249, 261, 255, Plumiera 261, Rauwolfia 261.

Type locality: Argentine.

Distribution: Porto Rico 261; Argentine 255; Dominica 71, 29b, 331a.

Citations: 263*, 71, 277a, 230a.

Specimen: the type.

New records: On Tabernaemontana sp. Panama, Tapia, Aug. 15, 1923, *1041*; Costa Rica, San Cecelia, Aug. 8, 1923, *764*. On Tabernaemontana grandiflora. Panama, Punta Bruja, Sept. 16, 1924, *526*, Las Cruces trail, Sept. 28, 1924, *874*, *160*, Mandingo, Oct. 15, 1924, *1364*, Corozal Trail 17, Aug. 30, 1924, *90*.

The Panamanian specimens differ slightly from the original description and the type material, chiefly in that in the Panamanian specimens the setae are always toruloid; the spores are also smaller, 29⩽11 μ. Spegazzini gives the hyphopodia also as alternate or opposite. I have never found them opposite.

No. 343. **Meliola tabernaemontanae** Spegazzini var. **forsteroniae** Stevens, Ill. Biol. Mono. **2**: 50, 1916.

On Apocynaceae: Forsteronia.

Type locality: Porto Rico, Stevens *4682*.

Citation: 230a.

No. 344. **Meliola euopla** Syd. nom. nov. in litt.

*Meliola vicina* Sydow, H., Annal. Mycol. **24**: 310. 1926.

On Apocynaceae: Rauwolfia nitida.

Type locality: Los Angeles de San Ramon, Costa Rica *133*.

Specimen: the type.

No. 345. **Meliola integriseta** Spegazzini, An. Mus. Nac., Buenos Aires, **32**: 376. 1924.

*Meliola sapindacearum* Spegazzini var. *integriseta* Speg., An. Mus. Nac. Hist. Nat., Buenos Aires, **10**: 328, no. 482. 1909.

On Sapindaceae: Serjania.

Type locality: Argentine.

No. 346. **Meliola integriseta** Spegazzini var. **stevensii** (Beeli) n. comb.

*Meliola stevensii* Beeli, Bul. Jard. Bot. Bruxelles **7**: 98. 1920.

On Sapindaceae.

Type locality: Congo, Africa, Vanderyst *2031*.

Citation: 215.

Specimen: the type.

No. 347. **Meliola integriseta** Spegazzini var. **lepisanthea** (Saccardo) n. comb.

*Meliola lepisanthea* Saccardo, in Atti dell' Accad. Veneto-Trentino-Istriana **10**: 61. 1917. New description in Sydow, H. and P., Annal. Mycol. **15**: 194. 1917.

On Sapindaceae: Lepisanthes.

Type locality: Luzon, Philippines, Bur. Sci. *24058*.

Specimens: the type. Baker.

No. 348. **Meliola ambigua** Patouillard & Gaillard, Bul. Soc. Myc. France **4**: 104. 1888.

On Labiatae 160, 83, 313. On Verbenaceae: Verbena 83, 313, 162, 9, Lantana 83, 313, 261, 9, 277a, 331a. On Sapindaceae 184, 313, Serjania 83, 166, 313, 9, 331a, Allophylus 184, 313, 331a. On Euphorbiaceae 184. On Melastomataceae 184, 313. On Bignoniaceae 184, 313. On Aristolochiaceae 184, 313. On Malvaceae 184. On Convolvulaceae 9. On Flacourtiaceae: Casearia 331a.

Type locality: Venezuela, no. *184*, on Labiatae.

Distribution: Venezuela 160, 162, 83, 313; Brazil 184, 166, 83, 313; Ecuador 83, 313, 261; Porto Rico 261; Panama 261; Costa Rica 277a; Santo Domingo 331a.

Citations: 83*, 230a.

Data are given in the original description for the formula 311 . 324 . Gaillard's later figures show the hyphopodia alternate and the setae over 300 μ long.

New records: On Lantana. Panama, Summit, Sept. 12, 1924, *460*, Culebra, Oct. 2, 1924, *923*, Mandingo, Oct. 10, 1924, *1344*; Ecuador, Ambata, Nov. 14, 1924, *326*; Peru, Hda. Chalhuapuquio, Dec. 7, 1924, *145*.

No. 349. **Meliola mayepeicola** Stevens, Ill. Biol. Mono. 2: 51. 1916.

On Oleaceae: Mayepea.

Type locality: Porto Rico, Stevens *7556*.

No. 350. **Meliola yerbae** Spegazzini, An. Mus. Nac., Buenos Aires, Ser. 3, **10**: 115. 1909.

On Aquifoliaceae: Ilex.

Type locality: Argentine.

Citation: 255.

No. 351. **Meliola calopogonii** n. sp.

Colonies epiphyllous, circular, 3—5 mm., not dense. Mycelium very sinuous, thin, 5—6 μ, translucent. Capitate hyphopodia mostly alternate, distant, 28—48 μ. Stalk cell short, 3—4 μ; head cell pyriform, small, 7 ⩽ 11 μ, 18—25 μ apart. Mucronate hyphopodia ampulliform.

Perithecial setae none. Mycelial setae only from the subicular disk, curved, apex simple, obtuse, 107—130 μ long. Perithecia globose, smooth, 92 μ, borne on a subicular disk. Asci evanescent. Spores 4-septate, 32—36 ⩽ 11 μ.

Group number 3111. 3211. Fig. 64.

On Leguminosae: Calopogonium. Panama, Punta Bruja, Sept. 16, 1924, *525*.

This in many characters is quite distinct from the forms previously noted on Calopogonium and is particularly characterized by its thin, sinuous mycelium with small regular hyphopodia and the subicular setose disk.

No. 352. **Meliola cestri** Tehon, Bot. Gaz. 57: 505. 1919.

On Solanaceae: Cestrum.

Type locality: Porto Rico, Stevens *7576*.

Citation: 230a.

No. 353. **Meliola peruviana** Sydow, H. & P., Annal. Mycol. **14**: 75. 1916.

On Bignoniaceae.

Type locality: Peru, Ule *3452*.

Specimen: the type.

New records: On Arrabidaea sp. indet. Panama, Agua Clara Reservoir, Sept. 17, 1924, *545*. On Arrabidaea pachycalyx. Panama, Brazos Brook Reservoir, Sept. 22, 1924, *711*.

No. 354. **Meliola peruviana** var. **irregularis** n. var.

Colonies amphigenous, circular, loose, 1—10 mm. in diameter. Mycelium sinuous, translucent, very thin, 4—5 μ. Capitate hyphopodia alternate, very small, distant, 36 μ, antrorse. Stalk cell short, 3—4 μ; head cell ovate, 11 × 7 μ. Mucronate hyphopodia ampulliform.

Perithecial setae none. Mycelial setae 85—200 μ long, translucent, simple, obtuse, 5 μ thick at base, slightly toruloid near the tip. Perithecia globose, smooth, 107—125 μ, on alveolar disks. Asci evanescent, 2-spored. Spores 4-septate, 25—22—7—8 μ, often slightly curved and the cells often irregular.

Group number 3111. 2111. Fig. 70.

On Bignoniaceae indet. Panama, Barro Colorado, Sept. 10, 1924. *420, 421.* Agua Clara Reservoir, Sept. 17, 1924, *547.*

This differs essentially from the type in its more numerous setae and lax, irregular mycelium and irregular spores, but is in mycelium otherwise like the type.

No. 355. **Meliola megalocarpa** Sydow, H., Annal. Mycol. 21: 94. 1923.

On Ebenaceae: Maba.

Type locality: Luzon, Philippines, Bur. Sci. *21213.*

Specimen: the type.

No. 356. **Meliola lucumae** Stevens, Ill. Biol. Mono. 2: 49. 1916.

On Sapotaceae: Lucuma 261, 255, Chrysophyllum 255.

Type locality: Porto Rico, Stevens *8596.*

Distribution: Porto Rico 261; Argentine 255.

Citations: 261*, 230a.

Spegazzini, based on Argentine material, gives the setae on Chrysophyllum as 250—500 μ, those on Lucuma as 200—300 μ.

No. 357. **Meliola xylosmae** n. sp.

Colonies thin, irregular, 2—9 mm. in diameter. Mycelium slightly irregular. Capitate hyphopodia alternate, antrorse. Stalk cell short, 3—4 μ; head cell cylindrical, 18—7 μ. Mucronate hyphopodia ampulliform.

Perithecial setae none. Mycelial setae 170—230 μ, obtuse. Perithecia globose, smooth, —110 μ, from a disk. Asci evanescent. Spores 4-septate, 28 × 11 μ.

Group number 3111. 2221. Fig. 65.

On Flacourtiaceae: Myroxylon intermedium. Panama, Pedro Miguel, Aug. 16, 1923, *1103.*

This is quite distinct from *M. banarae* in the shape of its hyphopodia.

No. 358. **Meliola myrsinacearum** Stevens, Ill. Biol. Mono. 2: 40. 1916.

On Myrsinaceae: Ardisia.

Type locality: Porto Rico, Stevens *7576.*

New record: On Myrsinaceae: Ardisia(?). Costa Rica, Cartago, June 23, 1923, *65.* The Meliola is so heavily overgrown by parasites that the determination is not certain.

Citation: 230a.

No. 359. **Meliola colladoi** Sydow. H. & P., Annal. Mycol. **18**: 98. 1920.
On Sapindaceae: Arytera.
Type locality: Laguna, Philippines, Collado *6227*.

No. 360. **Meliola xylopiae n. sp.**

Colony (a) epiphyllous, circular, regular, definite, 1—3 mm., dense; (b) hypophyllous, irregular, indefinite, black, 3—30 mm. Mycelium branching irregularly. Capitate hyphopodia alternate. Stalk cell short, 3—4 μ; head cell cylindrical, 22—11—13 μ. Mucronate hyphopodia ampulliform frequently very numerous, 18—32 × 7 μ, neck long.

Perithecial setae none. Mycelial setae numerous, black, curved, but not uncinate, 300—400 μ long, 9 μ thick at base, 7 μ at apex, obtuse, pale toward the apex, and very slightly roughened. Perithecia globose, 185—230 μ, smooth. Asci evanescent. Spores 4-septate, 54—25 μ.

Group number 3111. 5332. Fig. 66.

On Anonaceae: Xylopia grandiflora. Panama, Franco Field, Oct. 3, 1924, *1102*. On Xylopia frutescens. Panama, France Field, Oct. 3, 1924, *988*.

The setae usually are as described above, pale at the tip distinctly roughened and obtuse, but in a very few instances setae with a globular enlargement at the tip were seen, these both from epiphyllous and hypophyllous colonies.

Though resembling *M. anonae* in its setae this is really very distinct from that species, in the length of setae, size of spores, and particularly in the very different capitate hyphopodia, as well as in the general character of the colonies. The development of great numbers of mucronate hyphopodia in some regions while other regions are quite devoid of them is characteristic.

No. 361. **Meliola jasminicola** Hennings, Hedw. **34**. 11. 1895.
On Oleaceae: Jasminum.
Type locality: Tonkin, Hennings *4542*.
Distribution: Germany 90; Philippines 293, 4, 5; Borneo 353; India 8.
Citations: 267, 8*.
Specimen: the type. Phil. Bur. Sci. *39262*.
Bal (8) states that the hyphopodia are alternate or opposite.

No. 362. **Meliola euphorbiae** Stevens & Tehon, Annal. Mycol. **18**: 11. 1920.
On an undetermined Euphorbiacea.
Type locality: Kartabo, British Guiana, Stevens *663*.
Citation: 266*.

No. 363. **Meliola alocasiae** Sydow, H., Leaf. Philippine Bot. **9**: 3111. 1925.
On Araceae: Alocasia.
Type locality: Sorsogon, Philippines, *16333*.
Specimen: the type.

No. 364. **Meliola hawaiiensis** Stevens, Bish. Mus. Bul. **19**: 37. 1925.
On Myrtaceae: Eugenia.
Type locality: Hawaii, Stevens *667*.
Citation: 264*.

No. 365. **Meliola mitchellae** Cooke var. **orthopus** Theißen, Brot. **9**: 34. 1910.

On unknown host.

Type locality: Brazil.

No. 365a. **Meliola celtidicola** van der Bijl, So. African Jour. Sci. **23**: 283. 1916.

On Ulmaceae: Celtis.

Type locality: So. Africa.

No. 366. **Meliola celtidiae** Yates, Philippine Jour. Sci., C. Bot., **13**: 367. 1918.

On Ulmaceae: Celtis.

Type locality: Philippines, Bur. Sci. *24616* Ramos.

Specimen: the type.

No. 367. **Meliola longiseta** v. Höhnel, Sitzber. K. Akad. Wiss. Wien (Vienna), Math.-natur. Kl. **116**: 100. 1907.

On Rubiaceae: Psychotria.

Type locality: Samoa.

Specimen: the type.

No. 368. **Meliola alibertiae** n. sp.

Colonies amphigenous, diffuse, 3–10 mm. Mycelium straight, dark, 7 μ thick. Capitate hyphopodia mainly alternate, rarely opposite, antrorse or perpendicular. Stalk cell short, 3—4 μ; head cell sub-globose, cylindrical or slightly irregular, 14 ⩽ 8 μ. Mucronate hyphopodia ampulliform, 18—25 ⩽ 6 μ.

Perithecial setae none. Mycelial setae 230–460 μ, crooked, simple, obtuse. Perithecia globose, smooth, 120—140 μ, borne on an alveolar disk 45 μ in diameter. Asci evanescent. Spores 4-septate, 43—50 ⩽ 18 μ.

Group number 3111. 4222. Fig. 67.

On Rubiaceae: Alibertia edulis. Panama, Las Cruces Trail, Sept. 1, 1924, *145*.

This species lies near to *M. mitragynes* but differs from that species in its mycelial setae being always obtuse, its capitate hyphopodia smaller with the head cell often elongate, and the spores somewhat larger.

No. 369. **Meliola panicicola** Sydow, H. & P., Annal. Mycol. **12**: 552. 1914.

On Gramineae: Panicum.

Type locality: Camarines, Philippines, Bur. Sci. *22121*.

Citation: 301.

Specimen: the type.

No. 370. **Meliola pumila** Sydow, H., Leaf. Philippine Bot. **9**: 3119. 1925.

On Gesneriaceae: Boea.

Type locality: Sorsogon, Philippines *17411*.

Specimen: the type.

No. 371. **Meliola woodiana** Saccardo, in Sydow, Hedw. **38**: (132). 1899. *Meliola falcata* Sydow, H. & P., Annal. Mycol. **10**: 37. 1912.

On unknown host 278. On Rubiaceae: Plectronia 285, 45, 18, Pavetta 45. On Zygophyllaceae, Guaiacum 331a.

Type locality: Natal, Africa, on Rubiaceae.

Distribution: Africa 278, 285, 45, 18; Argentine 247; Santo Domingo 331a.

Citations: 153, 45*.

Doidge and Sydow say that the host of the type specimen is Plectronia.

No. 372. **Meliola laxa** Gaillard, Bul. Soc. Mycol. France 8: 179. 1892.

On Myrtaceae: 84, 251, 163, Eugenia 255.

Type locality: Ecuador.

Distribution: Guarapi 251; Ecuador 84, 163; Argentine 249, 255; Brazil 245.

Citation: 84*.

No. 373. **Meliola paucipes** Stevens, Ill. Biol. Mono. 2: 42. 1916.

On Piperaceae: Piper.

Type locality: Porto Rico, Stevens *7463*.

Citations: 261*, 215.

A typographical error occurred in the original description. The setae are mycelial, not perithecial.

No. 374. **Meliola subtortuosa** Rehm, Hedwigia 40: 162. 1901.

On Leguminosae: Caesalpinia.

Type locality: Brazil, Ule *704*.

No. 375. **Meliola thuemeniana** n. sp.

*Meliola microthecia* Thuemen ex Gaillard, Le Gen. Mel. 73. 1892.

On Rutaceae: Barosma.

Type locality: Cape of Good Hope, South Africa.

Citations: 83*, 45*.

Specimens: De Thuem., Myc. Univ. *851*.

Spegazzini (254) has referred to this species as *Meliola microthecia* Gaillard, a course that is not permissable since the name was preempted as *Meliola microthecia* de Thuemen. See p. 295. The most adequate description is that given by Doidge.

No. 376. **Meliola nigra** Stevens, Ill. Biol. Mono. 2: 37. 1916.

On Combretaceae: Laguncularia.

Type locality: Porto Rico, Stevens *7197*.

Citations: 29, 230a.

No. 377. **Meliola equadorensis** n. sp.

Colony epiphyllous, irregular, 2—5 mm. in diameter. Mycelium straight. Capitate hyphopodia alternate. Stalk cell short, 3—4 μ; head cell angular. Mucronate hyphopodia ampulliform.

Perithecial setae none. Mycelial setae diform: (a) black, 540 μ long, 9 μ thick at base, obtuse; (b) 150 μ long, 6 μ thick at base. Perithecia globose, smooth, 155 μ, on a radiate subicle. Asci evanescent. Spores 4-septate, 36 × 14 μ.

Group number 3111. 3223. Fig. 68.

On Sapindaceae ind. Ecuador, San Miguel, Nov. 4, 1924, *207*.

No. 378. **Meliola chamaecristae** Earle, Bul. N. Y. Bot. Gard. 3: 304. 1905.
On Leguminosae: Chamaecrista.
Type locality: Porto Rico, Heller *6371*.
Citations: 261, 230a.
Specimen: co-type.

No. 379. **Meliola knowltoniae** Doidge, Both. 1: 208. 1923.
On Ranunculaceae: Knowltonia.
Type locality: Natal, South Africa, Doidge *17177*.
Citation: 56*.

No. 380. **Meliola pterospermi** n. sp.

Colonies epiphyllous, black, circular, 1—3 mm. in diameter, often confluent and largely covering the leaf. Mycelium dark, crooked, closely tangled, but hardly crustose, 7—8 μ thick. Capitate hyphopodia alternate, numerous. Stalk cell short, 3—4 μ; head cell clavate, usually irregular to lobed, sometimes crenate, 18 ⩽ 14 μ. Mucronate hyphopodia ampulliform.

Perithecial setae none. Mycelial setae simple, 200—245 μ, obtuse, dark, lighter at tip, often curved, septate. Perithecia globose, rough, 175—250 μ in diameter, arising from radiate disks. Asci 2—4-spored, evanescent, 50—80 ⩽ 17—35 μ. Spores 4-septate, 35—50 ⩽ 15—22 μ, middle cells generally swollen.

Group number 3111. 4332.

On Sterculiaceae: Pterospermum sp. India, Bassein, Burma, Nov. 31, 1912, *1987*.

No true Meliola has heretofore been reported upon any of the Sterculiaceae. In general classification this species is near *M. tamarindi*.

Gitation: 264a*.

No. 381. **Meliola carissae** Doidge, Both. 1: 72. 1922.
On Apocynaceae: Carissa.
Type locality: Natal, South Africa, Doidge *12296*.
Citation: 54*.
Specimen: Union So. Afr. *12408*.

No. 382. **Meliola holigarnae** n. sp.

Colonies hypophyllous, sub-circular, 1—3 cm. in diameter, sooty black, velvety. Mycelium thin, pale, non-adherent. Spot none. Capitate hyphopodia alternate, not abundant, very irregular and irregularly spaced. Stalk cell short, 11 μ to 22—30 μ long; head cell very irregular, ovate, clavate or lobed, —25 ⩽ 14 μ. Mucronate hyphopodia ampulliform, few.

Perithecial setae none. Mycelial setae simple, obtuse, dark, very numerous, crooked, 540—620 μ. Perithecia globose, rough, 114—266 μ. Asci mostly 2-spored, ovate, 50—88 ⩽ 22—44 μ. Spores elliptical, 4-septate, 60—69 ⩽ 24—30 μ. Middle cell much larger than the others.

Group number 3111. 6333.

On Anacardiaceae: Holigarna grahamii. India, Anmod, N. Kanara, Dec. 25. 1917. No. *1981* (type), Ekambi, N. Kanara, Oct. 1919. No. *1986a*. Leg. Sedgwick.

Citation: 264a.

No species resembling this has been noted on the Anacardiaceae or indeed on any other host. The abundant non-adherent mycelium with very irregularly spaced hyphopodia which are also irregular in shape, as well as the spores of great size and characteristic shape, are distinctive. The aspect of the fungus throughout is rather that of a *Meliolina* then of a *Meliola* and the paucity of hyphopodia emphasizes this relationship. It constitutes a very interesting transition form between these genera.

No. 383. **Meliola tamarindi** Sydow, H. & P., Annal. Mycol. **10**: 79. 1912.

On Leguminosae: Tamarindus.

Type locality: Manila, Philippines, Merrill *7416*.

Citations: 287, 4, 301, 353.

Specimens: the type. Syd., Fungi Exot. Exs. 29.

No. 384. **Meliola visci** Stevens, Bish. Mus. Bul. **19**: 38. 1925.

On Loranthaceae: Viscum.

Type locality: Oahu, Hawaiian Islands, Stevens *167*.

Citation: 264*.

No. 385. **Meliola panici** Earle, Muhl. **1**: 12. 1901.

*Meliola substenospora* Höhnel forma *rottboelliae* Rehm, Annal. Mycol. 15: 192. 1917.

On Gramineae: Panicum 57, 201, 5, 261, 29, Lasiacis 261, Oplismenus 261, Andropogon 261, Rottboellia 301, Olyra 261, 29, 331a, Chloris 261, Ichnanthus 261, 29, Paspalum 9, Stipa 54.

Type locality: Porto Rico, Heller *4343*, on Panicum.

Distribution: South Africa 54; Porto Rico 261, 57, 29; Philippines 201, Santo Domingo 331a.

Citations: 5, 215, 54*, 230a.

Specimens: the type. Union So. Afr. *12358*, Fung. Mal. *45*, Rehm Ascom. *1874*.

New records: On Gramineae: Andropogon bicornis. Panama, Las Cruces trail, Sept. 2, 1924, *162*. On Olyra latifolia. Panama, Barro Colorado, Sept. 10, 1924, *428;* Costa Rica, Port Limon, Aug. 9, 1923, *839*, Sabario, Aug. 8, 1923, *801*. On Panicum megiston. Panama, France Field, Sept. 2, 1924, *213*. On Homolepis aturensis. Panama, France Field, Sept. 2, 1924, *217*. On Lasiacis oaxacensis. Panama, Brazos Brook reservoir, Sept. 22, 1924, *734*. On Lasiacis procerrima. Panama, Agua Clara reservoir, Sept. 17, 1924, *550*, New Limon, Oct. 4, 1924, *1014*, Ft. Lorenzo Trail, Oct. 10, 1924, *1185*, Brazos Brook reservoir, Sept, 22, 1924, *704*. On Lasiacis rudifolia. Panama, Culebra, Oct. 2, 1924, *942*. On Lasiacis ruscifolia. Panama, Paitilla Pt., Sept. 8, 1924, *369*, *364*, Old Corozal Road, Sept. 5, 1924, *284;* Costa Rica, Guapiles, July 18, 1923, *526*. On Lasiacis sorghoidea.

Panama, Corozal, Trail 17, Aug. 30, 1924, *111;* Costa Rica, Peralta, July 14, 1923, *478*, Parismina Junction, July 20, 1923, *604*, Juan Mina, Aug. 18, 1923, *1161*; Ecuador, Terecita, Oct. 30, 1924, *147*, Barrn'nital, Nov. 17, 1924, *314;* Trinidad, Cumato, Aug. 16, 1922, *884*. On Gramineae indet. Panama, New Limon, Oct. 4, 1924, *1020a*, Brazos Brook reservoir, Sept. 22, 1924, *750*, Agua Clara Reservoir, Sept. 17, 1924, *566*, Las Cruces trail, Sept. 28, 1924, *871*, Bella Vista, Oct. 7, 1924, *1110*, Culebra, Oct. 2, 1924, *914*. On Chusquea pittieri. Panama, Alehjuela, Aug. 18, 1923, *1141*, Juan Mina, Aug. 18, 1923, *1165*. On Isachne arundinacea. Ecuador, Terecita, Oct. 29, 1924, *57, 71;* Costa Rica, Peralta, July 12, 1923, *367*.

No. 386. **Meliola sauropicola** Yates, Philippine Jour. Sci., C. Bot., **12**: 368. 1917.

On Euphorbiaceae: Sauropus.

Type locality: Samar, Philippines, Bur. Sci. *24705* Ramos.

Specimen: the type.

No. 387. **Meliola oligopoda** Sydow, H., Annal. Mycol. **21**: 89. 1923.

On Melastomataceae.

Type locality: British North Borneo, *2079* Ramos.

Specimens: the type. No. *2079*.

No. 388. **Meliola brachycera** Sydow, H., Annal. Mycol. **24**: 297. 1926.

On Melastomataceae: Conostegia lanceolata.

Type locality: San Pedro de San Ramon, Costa Rica. *142*.

Specimen: the type. Fig. 69.

Examination of the type specimen shows setae —310 μ, capitate hyphopodia alternate, often rare, sometimes abundant. The capitate hyphopodia have stalk cells 8—10 μ long, the head cell nearly globose, usually regular but sometimes angular, 10—13 μ. The mucronate hyphopodia are peculiarly long and slender. The perithecium is very rough with protuberances, somewhat resembling vermiform appendages, but still differing markedly from such. The structures called setae are perhaps only ascending branches of mycelium. The peculiar mucronate and capitate hyphopodia and setae mark this as quite distinct from any other species.

No. 389. **Meliola aliena** Sydow, H. & P., Leaf. Philippine Bot. **5**: 1535. 1912.

On fallen twigs.

Type locality: Palawan, Philippines, *12586*.

Citations: 4, 301.

Specimens: the type, Phil. Bur. Sci. *21786*.

No. 390. **Meliola aristata** Toro, Mycol. **19**: 74. 1927.

On Passifloraceae: Passiflora

Type locality: Santo Domingo.

Citation: 331a*.

No. 391. **Meliola heveae** Vincens, Bul. Soc. Path. Vég. France 2: 26. 1925.

On Euphorbiaceae: Hevea.

Type locality: Amazon.

Citation: 335*.

## Conspectus of Group 10, Meliola.

3111. 4223, colonies 1—5 mm., s. 350—660 μ, hc. globose or recurved, on Aristolochiaceae . . . *aristolochiae* No. 392.

3111. 5322, colonies 3—5 mm., s. 350—500 μ, hc. globose, on Moraceae . . . . . *artocarpiae* No. 393.

3111. 3213, colonies 2—5 mm., s. 400—630 μ, hc. sub-globose, on Compositae . . . . . *angustispora* No. 394.

3111. 4221, colonies 1—2 cm., s. 250—300 μ, hc. sub-globose, on Oleaceae . . . . . *tayabensis* No. 395.

3111. 5233, colonies 5—10 mm., s. 700—1000 μ, hc. sub-globose, ovate, 12—14 μ, on Guttiferae . *garciniae* No. 396.

3111. 3121, colonies 1—4 mm., disk alveolar, s. 160 μ, hc. ovoid, pyriform or irregular, regular mycelium pale, on Urticaceae . . . . . *earlii* No. 398.

3111. 4232, colonies 3—7 mm., mycelium flexuose, s. 200—500 μ, hc. clavate, on Ulmaceae . . . *celtidum* No. 399.

3111. 5223, colonies 2—5 mm., s. 1000 μ, hc. ovate or elliptical, on Malpighiaceae . . . . . *byrsonimae* No. 400.

3111. 4222, colonies 2—10 mm., s. 300—500 μ, hc. elliptical to globose, on Burseraceae . . . . . *canarii* No. 401.

3111. 5323, colonies 1—2 cm., mycelium not very crooked, s. 600—700 μ, hc. oblong or irregular, 15—20 μ, on Connaraceae . . . . . *connariae* No. 403.

3111. 4223, mycelium crooked, s. 600—900 μ, biform, hc. angular or curved or lobed, on Connaraceae . *roureae* No. 404.

3111. 6222, colonies 3—8 mm., s. 260—320 μ, hc. ovoid or slightly lobed, on Marantaceae . . . *calatheicola* No. 405.

3111. 3221, s. 280 μ, disk radiate, irregular, mycelium dark, hc. lobed, on Urticaceae . . . . . *thomasiana* No. 406.

3111. 22—1, s. 150—250 μ, on Lauraceae . *zig-zag* var. *discreta* No. 407.

3111. 4221, s. 350—500 μ, hc. globose or lobed, on Anacardiaceae . . . . . *polytricha* var. *flexuosiseta* No. 408.

No. 392. **Meliola aristolochiae** Stevens & Tehon, Mycol. 18: 4. 1926.

On Aristolochiaceae: Aristolochia.

Type locality: British Guiana, Stevens *459*.

Citation: 266*.

New record: On Aristolochia sp. Costa Rica, Siquirres, July 31, 1923, *691*, Port Limon, Aug. 10, 1923, *890*.

No. 393. **Meliola artocarpiae** Yates, Philippine Jour. Sci., C. Bot., 12: 362. 1917.

On Moraceae: Artocarpus.

Type locality: Samar, Philippines, Bur. Sci. *24692* Ramos.

Specimen: the type.

No. 394. **Meliola angustispora** n. sp.

Colonies amphigenous circular, 2—5 mm. Mycelium crooked, dark, 7—9 μ thick. Capitate hyphopodia alternate. Stalk cell short, 3—4 μ; head cell sub-globose, 11 μ. Mucronate hyphopodia ampulliform, 18—21 × 7 μ.

Perithecial setae none. Mycelial setae simple, straight, 400—630 μ, 11 μ thick at base, black, acute or obtuse. Perithecia globose, smooth, 90—95 μ. Asci evanescent. Spores 4-septate, 30—43 × 11 μ.

Group number 3111, 3213. Fig. 71.

On Compositae: Baccharis rhexioides. Panama, Pnitilla Pt., Sept. 9, 1924, *344*.

No. 395. **Meliola tayabensis** Yates, Philippine Jour. Sc., C. Bot., 12: 369. 1917.

On Oleaceae: Linociera.

Type locality: Luzon, Philippines, Bur. Sci. *25049* Yates.

Specimen: the type.

This species is distinguished from *M. linocierae* by its larger spores and longer setae.

No. 396. **Meliola garciniae** Yates, Philippine Jour. Sci., C. Bot., 13: 369. 1918.

On Guttiferae: Garcinia.

Type locality: Luzon, Philippines, Bur. Sci. *27795*.

Specimen: the type.

No. 398. **Meliola earlii** Stevens, Ill. Biol. Mono. 2: 47. 1916.

On Urticaceae: Pilea.

Type locality: Porto Rico, Stevens *7685*.

Citations: 261*, 230a.

No. 399. **Meliola celtidum** Spegazzini, An. Mus. Nac., Buenos Aires, 32: 368. 1924.

On Ulmaceae: Celtis.

Type locality: Argentine.

No. 400. **Meliola byrsonimae** Stevens, Ill. Biol. Mono. 2: 49. 1916.

On Malpighiaceae: Byrsonima.

Type locality: Porto Rico, Stevens *3541*.

Citation: 230a.

New records: On Byrsonima crassifolia. Panama, Las Cruces Trail, Sept. 28, 1924, *888*, Sept. 2, 1924, *159*.

No. 401. **Meliola canarii** Sydow, H. & P., Annal. Mycol. 12: 550. 1914

*Meliola nigro-rufescens* Saccardo, Atti Accad. Veneto-Trentino-Istriana 10. 60. 1914.

On Burseraceae: Canarium.

Type locality: Luzon, Philippines, McGregor, Bur. Sci. *20480*.

Citations: 271, 301, 275.

Specimens: Phil. Bur. Sci. *23877*, Baker, Fungi Mal. *547*, *593*.

No. 403. **Meliola connariae** Yates, Philippine Jour. Sci., C. Bot. 12: 364. 1917.

Given as *M. connari* by Trotter in the Sylloge Fungorum Vol. 24.

On Connaraceae: Connarus.

Type locality: Luzon, Philippines, Yates, Bur. Sci. *25622*.

Specimen: the type.

New record: On Connarus panamensis. Panama, Gatuncillo, Aug. 18, 1923, *1143*.

No. 404. **Meliola rourcae** Sydow, H. & P., Annal. Mycol. 15: 191. 1917. *Meliola rourcae* Yates, Philippine Jour. Sci., C. Bot., 13: 370. 1918.

On Connaraceae: Rourea.

Type locality: Luzon, Philippines, Bur. Sci. *23926*.

Citation: 273.

Specimens: the type. Phil. Bur. Sci. *23997*, *27724*.

No. 405. **Meliola calatheicola** n. sp.

Colony 3—8 mm. in diameter, black, dense. Mycelium sinuous or straight with the veins. Capitate hyphopodia alternate. Stalk cell short, 3—6 μ; head cell ovoid, sometimes short cylindric or slightly lobed, often bent or inserted laterally. Mucronate hyphopodia ampulliform, 18—25 × 7—9 μ. Perithecial setae none. Mycelial setae 260—320 μ, black, 11 μ thick at base, usually strongly bent but hardly uncinate, tips obtuse or acute. Perithecia globose, smooth, 185 μ in diameter. Asci evanescent. Spores 4-septate, 61 × 15 μ.

Group number 3111. 6222. Fig. 72.

On Marantaceae: Petioles of Calathea lutea. Costa Rica, Port Limon, Aug. 10, 1923, *882*.

No. 406. **Meliola thomasiana** Saccardo, Bol. Soc. Brot. 21: 4. 1904—05

On Urticaceae: Elatostema.

Type locality: St. Thomas, Africa.

Specimen: the type.

Though the original description reads "spores 3-septate" the type specimen, kindly loaned to me by Dr. Trotter, shows them to be 4-septate as did also Saccardo's drawings on the packet. To Saccardo's description may be added, hyphopodia alternate, mycelium very crooked, colony dense, becoming crustose.

No. 407. **Meliola zig-zag** Berkely & Curtis var. **discreta** Starbäck, Ark. Bot. 5: No. 7: 7. 1905.

On Lauraceae: Cinnamomum.

Type locality: Brazil.

No. 408. **Meliola polytricha** Kalchbrenner & Cooke var. **flexuosiseta** Spegazzini, Rev. Mus. La Plata, **15**: 16. 1908.

On Anacardiaceae: Schinus.

Type locality: Brazil.

## Conspectus of Group 11, Meliola.

Spore ends conic

3111. 4222, colonies 3—6 mm., s. 300—350 μ, hc. globose, on Myrtaceae . . . *psidii* No. 409.

Spore ends not conic, ch. mostly curved

3111. 5223, colonies 2—10 mm., s. 450—600 μ, on Myrsinaceae . . . . . *ardisiae* No. 410.

Ch. and spores not as above

Hc. regular

3111. 4221, colonies 1 cm., s. 150—300 μ, hc. globose, on Myrsinaceae . . . . . *delicatula* No. 411.

3111. 4222, colonies 2—4 mm., crustose, s. 350—500 μ, hc. globose, on Lauraceae *zigzag* No. 412.

3111. 5222, colonies 10—12 mm., s. 300—420 μ, hc. globose, on unknown host . *leptospora* No. 413.

3111. 3221, s. 150—300 μ, hc. globose, on Bignoniaceae . . . . . *brasiliensis* No. 414.

3111. 5323, colonies 1—5 mm., mycelium straight, s. 500—800 μ, hc. globose, sub-globose, on Cyperaceae . . . . . *mapaniae* No. 415.

3111. 3223, s. 300—700 μ, hc. globose, sub-globose, on Leguminosae . . . . . *banosensis* No. 416.

3111. 3221, colonies ½—1 cm., thin, s. 120—160 μ, hc. globose or ovoid, on Leguminosae . . . . . *gliricidiae* No. 417.

3111. 3221, colonies 2—6 mm., dense, s. 200 μ, hc. ovoid, on Leguminosae . . . *pterocarpiae* No. 418.

3111. 3221, colonies ½—1 mm., mycelium scant, s. 100—200 μ, hc. sub-globose, on Convolvulaceae . . . . . *ipomoeicola* No. 419.

3111. 5222, s. 300—500 μ, attenuate, hc. ovoid, sub-globose, on Convolvulaceae *decidua* No. 420.

3111. 5223, s. 920 μ, hc. ovoid or globose, on unknown host . . . . . *effusa* No. 421.

3111. 4333, colonies 4—8 mm., s. 500—600 μ, hc. ovoid, sub-globose, 10—12 μ, on Moraceae . . . . . *ficium* No. 422.

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| 3111. 4222, mycelium crooked, s. 400—450 μ, around the perithecium, hc. subglobose, ovoid, or crenate, on Apocynaceae | *funtumiae* | No. 423. |
| 3111. 3213, s. 200—770 μ, hc. ovoid, bent. 7 × 14 μ, on Apocynaceae | *beebei* | No. 424. |
| 3111. 3223, colonies 3—8 mm., s. 300—650 μ, hc. ovoid, not bent, on Apocynaceae | *amboinensis* | No. 425. |
| 3111. 4222, colonies 2—8 mm., mycelium crooked, s. 400 μ, hc. ovoid-globose, on Gesneriaceae | *gesneriae* | No. 426. |
| 3111. 4232, colonies 1—4 mm., s. 250—350 μ, hc. globose-ovoid, on Sapindaceae | *parenchymatica* | No. 427. |
| 3111. 4232, s. 250—350 μ, ch. globose-ovoid, on Bignoniaceae | *lanceolato-setosa* | No. 428. |
| 3111. 3222, colonies 3—8 mm., s. 275—500 μ, hc. ovoid, on Sapindaceae | *paulliniae* | No. 429. |
| 3111. 5221, colonies adherent, s. 250—300 μ, hc. broadly ovoid, on Santalaceae | *polytricha* | No. 430. |
| 3111. 5221, | *polytricha* var. *anacardiaceae* | No. 431. |
| 3111. 42-2, | *polytricha* var. *paropsiae* | No. 432. |
| 3111. 4221, colonies 2—3 mm., s. 250—300 μ, hc. ovoid-globose, on Hippocrateaceae | *montagnei* | No. 433. |
| 3111. 3121, colonies 1—4 mm., s. 200—300 μ, twisted, hc. globose, ovoid, pyriform, on Meliaceae | *guareicola* | No. 434. |
| 3111. 4223, colonies 2—5 mm., dense, s. 500—800 μ, hc. clavate, disks present, on Meliaceae | *trichiliicola* | No. 435. |
| 3111. 4222, colonies 2—5 mm., mycelium loose, s. 400 μ, hc. pyriform to globose, on Sapotaceae | *dipholidis* | No. 436. |
| 3111. 3223, colonies 2—3 cm., s. 350—650 μ, hc. ovoid, on Menispermaceae | *banguiensis* | No. 437. |
| 3111. 6332, colonies 3—4 mm., s. 400—500 μ, hc. ovoid, large, 30—32 × 15 μ, on unknown host | *thollonis* | No. 438. |
| 3111. 3222, colonies 2—5 mm., mycelium crooked, s. 300—400 μ, hc. ovoid, on Apocynaceae | *trachelospermae* | No. 439. |
| 3111. 3221, colonies ¼—½ mm., s. 250—300 μ, hc. ovoid, on Rubiaceae | *mitchellae* | No. 440. |

3111. 2221, colonies 1—4 mm., no disease spot, s. 250 μ, only at base of perithecium, hc. ovoid, on Euphorbiaceae . . *jatrophae* No. 441.

3111. 3221, colonies 1—3 mm., s. 200—250 μ, distinctly parasitic, hc. oblong, on Euphorbiaceae . . . . . *morbosa* No. 442.

3111. 3211, colonies 2—5 mm., s. 150—200 μ, hc. ovoid, on Oleaceae . . . . *linocierae* No. 443.

3111. 4331, colonies 2—4 mm., s. 240—300 μ, hc. ovoid, clavate, or curved, on Oleaceae . . . . . *oleicola* No. 444.

3111. 2222, colonies 1—4 mm., s. 200—320 μ, hc. cylindrical, on Asclepiadaceae *perpusilla* No. 445.

3111. 3222, hc. ovoid, strongly antrorse, on Asclepiadaceae . . . . . *perpusilla* var. *congoensis* No. 446.

3111. 3222, colonies 4—8 mm., s. 240—350 μ, often sub-crenate, hc. oblong-ovate, on Ochnaceae . . . . . *ochnae* No. 447.

3111. 4233, s. 250—750 μ, hc. clavate, 20—30 ⩽ 7—12 μ, on Icacinaceae . . . *villaresiicola* No. 448.

3111. 4232, colonies 3—8 mm., s. 200—300 μ, hc. clavate, on Simarubaceae . . *falcatiseta* var. *alternipes* No. 449.

3111. 4221, colonies 1—3 mm., very dense, s. 200—250 μ, hc. clavate, on Pittosporaceae . . . . . *elmeri* No. 450.

3111. 3221, s. 180 μ, hc. clavate, on Apocynaceae . . . . . *alstoniae* No. 451.

3111. 4232, colonies 3—7 mm., hc. clavate, on Phytolaccaceae . . . . . *molfinoi* No. 452.

3111. 4221, colonies 2—5 mm., s. 250—300 μ, hc. sub-clavate, on Moraceae . . *eriophora* No. 453.

3111. 4331, s. 250—300 μ, hc. clavate, on Aristolochiaceae . . . . . *atricapilla* No. 454.

3111. 3221, colonies 2—3 mm., s. 230 μ, hc. clavate to irregular, on Aristolochiaceae . . . . . *aristolochiicola* No. 455.

3111. 4222, s. 300—425 μ, hc. ovate-oblong, on Rubiaceae . . . . . *mitragynes* No. 456.

3111. 4332, colonies 5—15 cm., s. 300—400 μ, hc. ovate-oblong, crowded, on Loganiaceae . . . . . *fagraeae* No. 457.

3111. 4223, colonies 2—10 mm., not strongly parasitic, no disk, s. 250—1000 μ, hc. cylindrical-clavate, on Meliaceae . . . *guareae* No. 458.

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| 3111. 4222, s. 150—320 μ, hc. cylindrical, sub-clavate, on Combretaceae . . . . | *pelliculosa* | No. 459. |
| 3111. 4224, colonies 4—15 mm., s. —1100 μ, hc. cylindrical, 20 ⩽ 10 μ, on Rutaceae | *pilocarpi* | No. 460. |
| 3111. 5223, colonies 3—8 mm., s. 600—800 μ, hc. oblong, on Anonaceae . . . | *borneensis* | No. 461. |
| 3111. 4232, colonies 3—6 mm., s. 300—500 μ, hc. cylindrical, on unknown fruit | *cylindripoda* | No. 462. |
| 3111. 4232, colonies 2—5 mm., s. 350—420 μ, hc. cylindrical, on Verbenaceae | *durantae* | No. 463. |
| 3111. 3222, colonies 2—10 mm., s. 174—420 μ, hc. cylindrical, on Leguminosae | *bataanensis* | No. 464. |
| 3111. 3222, colonies loose, 3—10 mm., s. 300—350 μ, hc. cylindrical, on Lauraceae . . . . . | *ocoteicola* | No. 465. |
| Hc. irregular | | |
| 3111. 5222, s. 250—325 μ, numerous, hc. elongate, truncate, lobed or crenate, not adherent, on Anacardiaceae . . . | *irradians* | No. 466. |
| 3111. 4231, colonies 3—4 mm., s. 140—240 μ, hc. ovate, uncinate or angled, on Anacardiaceae . . . . . | *loxostylidis* | No. 467. |
| 3111. 3223, colonies 2—8 cm., s. 500—800 μ, hc. globose or lobed, on Cyperaceae | *intricata* | No. 468. |
| 3111. 3223, on Velloziaceae . . . . . | *intricata* var. *major* | No. 469. |
| 3111. 3223, colonies 5—15 mm., s. 600—750 μ, hc. lobed or globose, on Rubiaceae | *ixorae* | No. 470. |
| 3111. 3222, s. 300 μ, hc. clavate to lobed, recurved, on Monimiaceae . . . . . | *mollinediae* | No. 471. |
| 3111. 4223, colonies 1—6 mm., s. 280—800 μ, hc. ovoid-pyriform, lobed, on Sapindaceae . . . . . | *serjaniae* | No. 472. |
| 3111. 4223, on Sapindaceae . . . . | *serjaniae* var. *dentata* | No. 473. |
| 3111. 3222, colonies 2—5 mm., s. 350—450 μ, hc. oblong or lobed, on Sapindaceae . . . . . | *otophorae* | No. 474. |
| 3111. 4221, s. 200—250 μ, hc. cylindric or irregular, on Sapindaceae . . . . . | *sydowiana* | No. 475. |
| 3111. 4223, colonies 2—5 mm., s. 620 μ, hc. pyriform or angular and irregular, on Liliaceae . . . . . | *gregoriana* | No. 476. |
| 3111. 4222, colonies 1—3 mm., s. 500 μ, hc. pyriform or sometimes lobed, on Piperaceae . . . . . | *stenospora* | No. 477. |

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| 3111. 4222, colonies 3—10 mm., mycelium straight, s. 350—400 μ, hc. clavate, often angular, on Apocynaceae . . . . . | *laevigata* | No. 478. |
| 3111. 3221, colonies 3—5 mm., s. 200—300 μ, hc. clavate, angular, on Compositae . . | *boninensis* | No. 479. |
| 3111. 3221, colonies 2—4 mm., s. 175—250 μ, hc. clavate or irregular, on Rubiaceae . . . . . | *palawanensis* | No. 480. |
| 3111. 4233, colonies 5—10 mm., s. 800—1000 μ, hc. ovate, elongate or irregular, strongly parasitic, on Meliaceae . . . | *parasitica* | No. 481. |
| 3111. 4233, s. —540 μ, mycelium crooked, hc. ovate, oblong or irregular, on Cyperaceae . . . . . | *italica* | No. 482. |
| 3111. 5232, colonies 1—5 mm., mycelium sinuous, s. 250—350 μ, hc. sub-cylindrical to lobed, on Meliaceae . . . . . | *sinuosa* | No. 483. |
| 3111. 3222, colonies 1—3 mm., loose, s. 270—310 μ, hc. cylindrical to irregular, on Gramineae . . . . . | *chaetochloae* | No. 484. |
| 3111. 4222, colonies 1—4 mm., dense to crustose, s. 360 μ, hc. irregular, on Gramineae . . . . . | *substenospora* | No. 485. |
| 3111. 6342, colonies 5—10 mm., s. 300—600 μ, hc. tortuose, distant, lobed, on Hamamelidaceae . . . . . | *torta* | No. 486. |
| 3111. 5322, colonies 3—10 mm., dense, s. 180—350 μ, hc. irregular, angular, or lobed, 22—29 μ, on Euphorbiaceae . | *macarangae* | No. 487. |
| 3111. 4222, colonies dense, crustose, s. 350—415 μ, hc. very irregular, on Euphorbiaceae . . . . . | *hippomaneae* | No. 488. |
| 3111. 3222, colonies 1—3 mm., s. 300—500 μ, hc. strongly lobed, on Piperaceae | *piperina* | No. 489. |
| 3111. 3222, colonies 5—10 mm., not dense, s. 300—500 μ, hc. lobed, on Euphorbiaceae . . . . . | *excoecariae* | No. 490. |
| 3111. 4232, colonies 2—5 mm., s. 500 μ, hc. tortuose or lobed, long stalked, on Cyperaceae . . . . . | *uleana* | No. 491. |
| 3111. 5232, colonies 4—10 mm., s. 400—500 μ, hc. sub-lobed, on Lauraceae . . | *cryptocaryae* | No. 492. |
| 3111. 5222, s. —400 μ, hc. irregular, usually bent, on Leguminosae . . . . . | *rudolphiae* | No. 493. |

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| 3111. 4232, colonies 1—2 mm., s. 280—400 μ, hc. lobed, on Anacardiaceae . . | *rhois* | No. 494. |
| 3111. 4221, colonies 1—3 mm., mycelium irregular, s. 265 μ, hc. very irregular, on Solanaceae . . . . . | *capsicola* | No. 495. |
| 3111. 4231, colonies 1—2 mm., s. 100—120 μ, hc. lobed, on leaves of trees . . | *acanthopoda* | No. 496. |
| 3111. 423—, colonies —15 mm., hc. lobed, on Cannaceae . . . . . | *velutina* | No. 497. |
| 3111.6323, s. 500—750 μ, on Lauraceae . . . | *setulifera* | No. 498. |
| 3111. 3222. s. acute, 275—400 μ, hc. often lobed or angular, on Lauraceae . . . | *acutiseta* | No. 499. |

No. 409. **Meliola psidii** Fries, Linnaea **5**: 549. 1830.

*Meliola moerenhoutiana* Mont. pro parte.

On Myrtaceae: Psidium.

Type locality: Cuba.

Distribution: Cuba 154; Brazil 257, 258, 190; Surinam 83, 154; Paraguay 254a; Ecuador 83, 162; Porto Rico 57, 261, 29; Costa Rica 277a; Nicaragua 254; Dominica 29d; Amazon 334, 101, Santo Domingo 331a.

Citations: 154*, 257, 258*, 83*, 267, 230a.

Specimens: Syd., Fungi Exot. Exs. *28*, Ule, Myc. Bras. *62*.

New records: On Psidium guayava. Costa Rica, Las Mercedes, July 14, 1923, *492*, Port Limon, Aug. 10, 1923, *866*, Siquirres, July 31, 1923, *674*; Panama, Ft. Davis, Mt. Hope, old road, Sept. 25, 1924, *813*, Empire, Oct. 8, 1924, *1140*; Trinidad, St. Augustine, Aug. 13, 1922, *831*, Cumuto, Aug. 16, 1922, *942*; British Guiana, Coverden, Aug. 4, 1922, *723*, Rockstone, July 17, 1922. *483*.

Sydow (277a) remarks this is a synonym of *Sphaeria trichostoma* Kze. in Weigelt exs. 1827 and that perhaps the Kunze name has priority.

No. 410. **Meliola ardisiae** Sydow, H., Leaf. Philippine Bot. **9**: 3116, 1925.

On Myrsinaceae: Ardisia.

Type locality: Sorsogon, Philippines *17327*.

Specimen: the type.

No. 411. **Meliola delicatula** Spegazzini, An. Soc. Cient., Argentina **26**: no. 63, 1888.

On Myrsinaceae: Myrsine 241, 83. On Bignoniaceae: Tecoma 313.

Type locality: Paraguay *3985*, on Myrsinaceae.

Distribution: Paraguay 241, 83; Brazil 313, 184.

Citations: 83*, 263*.

Specimen: the type.

No. 412. **Meliola zigzag** Berkeley & Curtis, in Berkeley, Jour. Linn. Soc. (London), Bot. **10**: 392. 1869.

On Rubiaceae: 254. On Lauraceae: Cinnamomum 12, 307. On Meliaceae: Cabralea 313.

Type locality: Cuba, Fungi Cubenses *882*, on Lauraceae.
Distribution: Cuba 12, 83, 313, 254; Brazil 313; India 307.
Citation: 83*.
Specimens: the type. Berkeley *479*.
The original description seems to call for perithecial setae but Gaillard mentions none.

No. 413. **Meliola leptospora** Gaillard, Le Gen. Mel. 87: 1892.
On unknown host.
Type locality: Congo, Africa, Thollon *1207*.
Citation: 83*.
Specimen: the type.

No. 414. **Meliola brasiliensis** Spegazzini, An. Soc. Cient., Argentina, **12**: No. 116. 1881.
On Anacardiaceae: Schinus 184; Leandrus 184. On Sapindaceae: Paullinia 184. On Myrtaceae: Eugenia 184. On Malpighiaceae: Byrsonima 184. On Bignoniaceae: 282, 184. On Sapotaceae: 166.
Type locality: Apiahy, Brazil, on Bignoniaceae.
Distribution: Brazil 235, 83, 166, 184, 242.
Citations: 83*, 263*, 215*.
Specimen: the type.

No. 415. **Meliola mapaniae** Yates, Philippine Jour. Sci., C. Bot., **12**: 367. 1917.
On Cyperaceae: Mapania.
Type locality: Samar, Philippines, Bur. Sci. *24640* Ramos.
Specimen: the type.
This appears to be quite distinct from *M. argentina* in many ways.

No. 416. **Meliola banosensis** Sydow, H. & P., Annal. Mycol. **14**: 356. 1916.
On Leguminosae: Pueraria.
Type locality: Philippines, Baker *4016*.
Citation: 301.
Specimen: Baker, Fungi Mal. *250*.

No. 417. **Meliola gliricidiae** Sydow, H. & P., Annal. Mycol. **12**: 550. 1914.
On Leguminosae: Gliricidia.
Type locality: Rizal, Philippines, Bur. Sci. *21929* Ramos.
Specimen: Phil. Bur. Sci. *21929*.

No. 418. **Meliola pterocarpiae** Yates, Philippine Jour. Sci., C. Bot., **13**: 235. 1918.
*Meliola bauhiniae* Yates, Philippine Jour. Sci., C. Bot., **13**: 365. 1918.
On Leguminosae: Pterocarpus, Bauhinia.
Type locality: British North Borneo, Yates *102*. Fig. 73.
Specimens: the type, the type of *M. bauhiniae*.

No. 419. **Meliola ipomoeicola** Beeli, Bul. Jard. Bot., Bruxelles **7**: 96. 1920.
On Convolvulaceae: Ipomoea.
Type locality: Congo, Africa, Vanderyst *2061*.
Specimen: the type.

No. 420. **Meliola decidua** Spegazzini, Bol. Acad. Nac. Cient., Cordoba 11: No. 240, 1889.

On Convolvulaceae (?).

Type locality: Apiahy, Brazil *2344*.

Citation: 263*.

Specimen: the type.

No. 421. **Meliola effusa** Gaillard, Le Gen. Mel. 91. 1892.

*Meliola moerenhoutiana* Montagne, in Herb. Mus. Paris *pro parte*.

On unknown host.

Type locality: Paramaribo, Koegel *596*.

Citation: 83*.

No. 422. **Meliola ficium** Yates, Philippine Jour. Sci., C. Bot., 13: 368. 1918.

On Moraceae: Ficus.

Type locality: Luzon, Philippines, Bur. Sci. *28002*.

Specimen: the type.

The setae arise from well developed hypothecial disks, spores 43—47 ⩽ 18—21 μ.

No. 423. **Meliola funtumiae** Beeli, Bul. Jard. Bot., Bruxelles, 7: 95. 1920.

On Apocynaceae: Funtumia.

Type locality: Congo, Africa, Vanderyst *1621*.

Specimen: the type.

No. 424 **Meliola beebei** n. sp.

Colony moderately dense, hypophyllous. Mycelium much branched, nearly straight. Capitate hyphopodia alternate or unilateral, stalk cell usually short, 3—4 μ, occasionally longer, 10 μ; head cell regular, ovoid, about 7 ⩽ 14 μ, nearly always bent to approximately at right angle. Mucronate hyphopodia few, narrow.

Perithecial setae none. Mycelial setae simple, straight or slightly bent, acute, 200—770 μ long, 9 μ thick at base, abundant only in the older, central portions. Perithecia small, 80—110 μ, smooth. Asci evanescent, Spores 4-septate, 33—36 ⩽ 11 μ, slightly constricted.

Group number 3111. 3213. Fig. 74.

On Apocynaceae: Tabernaemontana sp. British Guiana, Kartabo, July 21, 1922, *506*.

Named in honor of Mr. Wm. Beebe.

Nr. 425. **Meliola amboinensis** Sydow, H., Philippine Jour. Sci., C. Bot., 21: 133. 1922.

On Apocynaceae: Aganosma.

Type locality; Amboina, Reliquiae Robinsonianae *2150*.

Specimen: the type. Fig. 75.

No. 426. **Meliola gesneriae** Stevens, Ill. Biol. Mono. 2: 47. 1916.

On Gesneriaceae: Gesneria. On Solanaceae: Cestrum.

Type locality; Porto Rico, Stevens *7465*.

Citation: 230a.

No. 427. **Meliola parenchymatica** Gaillard, Bull. Soc. Mycol. France 8: 180. 1892.

On Sapindaceae: 83, 4, 184, Sapindus 197, 222, 4, 301, 6. On Vitaceae: Cissus 163. On Leguminosae: Desmodium 197, 4. On Gramineae 10, Rottboellia 197, 4, Panicum 10.

Type locality: Brazil, Ule *375*, on Sapindaceae.

Distribution: Brazil 83, 4, 184; Ecuador 163; Philippines 197, 222, 301, 4, 6; Congo, Africa 10,

Citations: 83*, 267, 5.

Specimens: Baker, Fungi Mal. *365*. Phil. Bur. Sci. *482*.

No. 428. **Meliola lanceolato-setosa** Sydow, H. & P., Annal. Mycol. 12: 197. 1914.

On Bignoniaceae: Tecoma 9, Markhamia 295, 288. On Pittosporaceae: Pittosporum 9, 288.

Type locality: German East Africa, on Bignoniaceae. Bot. Inst. Amani *5602*.

Specimens: Syd., Fungi Exot. Exs. *248, 249*.

No. 429. **Meliola paulliniae** Stevens, Ill. Biol. Mono. 2: 45. 1916.

On Sapindaceae: Paullinia. On Flacourtiaceae: Casearia. On Guttiferae: Mammea.

Type locality: Porto Rico, Stevens *1149*.

Citations: 261*, 29, 230a.

New record: On Paullinia. Trinidad, Panama, Feb. 1923; collected by Dr. Nowell. A white wooly parasite was overgrowing the Meliola. This specimen differs from the type specimen only in being hypophyllous as well as epiphyllous.

No. 430. **Meliola polytricha** Kalchbrenner & Cooke, in Cooke, Grev. 8: 72. 1879.

On Myrsinaceae: Ardisia 6. On Pittosporaceae: Pittosporum 45. On Santalaceae: Osyris 35, 83, 45. On Cunoniaceae: Cunonia 35, 213, 83, 207. On Anacardiaceae: Schinus 241, 83, 245, 194, Duvaua 244. On Solanaceae: Solanum 163, 84. On Sapindaceae 166. On Loranthaceae: Loranthus 96. On Leguminosae 184. On Melastomataceae: Leandra 184. On Plantaginaceae: Plantago 184.

Type locality: Natal, South Africa, on Osyris.

Distribution: South Africa 35, 83, 45, 96; Portugal 213; Paraguay 83, 207, 241; Brazil 166, 184, 245, 194; Ecuador 84, 163; Argentine 244; Philippines 6, 261*.

Citations: 84*, 153, 45*, 261*. 2.

Specimens: Roum., Fungi Sel. Gal. Exs. *5943*, Baker, Fungi Mal. *254*. Rehm, Ascom. Fasc. *46*. Union So. Africa *8996* (compared with the type). Phil. Bur. Sci. *254*.

The description by Doidge taken from Woods duplicate of the type material differs from that of Gaillard in measurements.

The specimen reported by Spegazzini (241) was later recognized as *M. lanigera* (255).

No. 431. **Meliola polytricha** Kalchbrenner & Cooke form **anacardiaceae** Arnaud, Thesis. 1918.

On Anacardiaceae: Lithraea.

Citation: 2*.

This is possibly identical with *M. polytricha* (K. & C. var. *lanuginosa* Speg.

No. 432. **Meliola polytricha** var. **paropsiae** Beeli Bull. Soc. Roy. Bot. Belg. 60: 99. 1927.

On Passifloraceae: Paropsia.

Group number 3111. 42—2.

Type locality: Congo, Vanderyst *9777*.

Citation: 10a*.

Specimen: the type.

No. 433. **Meliola montagnei** Patouillard. in Gailliard. Le Gen. Mel., 85. 1892.

On Hippocrateaceae: Salacia.

Type locality: France.

Citation: 83*.

Previously reported as *Meliola meschweilleriana* (147), and as *Meliola amphitricha* Fr., *D. salaciae undulatae* (20).

No. 434. **Meliola guareicola** Stevens. Ill. Biol. Mono. 2: 53. 1916.

On Meliaceae: Guarea.

Type locality: Porto Rico, Stevens *8166*.

Distribution: Porto Rico 261; Dominica 29e.

Citations: 29, 230a.

No. 435. **Meliola trichiliicola** Spegazzini. An. Mus. Nac., Buenos Aires **32**: 366. 1924.

On Meliaceae: Trichilia.

Type locality: Argentine.

This differs from *M. trichiliae* Beeli and *M. guareae* Speg. in its hypothecial disk and smaller perithecia.

No. 436. **Meliola dipholidis** Stevens, Ill. Biol. Mono. 2: 44. 1926.

On Sapotaceae: Dipholis.

Type locality: Porto Rico, Stevens *8549*.

Citation: 230a.

No. 437. **Meliola banguiensis** Yates. Philippine Jour. Sci., C. Bot., 13: 365. 1918.

On Menispermaceae.

Type locality: Philippines, Bur. Sci. *27696* Ramos.

Specimen: the type.

No. 438. **Meliola thollonis** Gaillard. Le Gen. Mel. 88. 1892.

On unknown host.

Type locality: Africa, Thollon *23*.

Citation: 84*.

No. 439. **Meliola trachelospermae** Yates, Philippine Jour. Sci., C. Bot. **13**: 370. 1918.

On Apocynaceae; Trachelospermum.

Type locality: Luzon, Philippines, Bur. Sci. *29813*, Ramos & Edaño.

Specimen: the type.

No. 440. **Meliola mitchellae** Cooke, Grev. **6**: 143. 1878.

On Rubiaceae: Mitchella.

Type locality: Florida, Rav. F. Am. *88*.

Distribution: Southern U. S. A. 33, 134, 332, 83, 64, 254; Argentine 235; Brazil 313.

Citations: 33*, 83*, 332.

Specimens: Rav., Fungi Amer. *88*, Ellis & Everhart, N. Amer. Fungi *1294*.

No. 441. **Meliola jatrophae** Stevens, Ill. Biol. Mono. **2**: 48. 1916.

On Euphorbiaceae: Jatropha.

Type locality: Porto Rico, Stevens *7873*.

Citation: 215.

No. 442. **Meliola morbosa** Stevens, Bish. Mus. Bul. **19**: 38. 1925.

On Euphorbiaceae: Claoxylon.

Type locality: Kauai, Hawaiian Islands, Stevens *452*.

Citation: 264*.

No. 443. **Meliola linocierae** Sydow, H. & P., Annal. Mycol. **12**: 550. 1914.

On Oleaceae: Linociera.

Type locality: Rizal, Philippines, Bur. Sci. *254* Ramos.

Specimen: Syd., Fungi Exot. Exs. *375*.

No. 444. **Meliola oleicola** Doidge, Both. **1**: 73. 1922.

On Oleaceae: Olea.

Type locality: Natal, South Africa, Doidge *11557*.

Citation: 56*.

Specimens: Union So. Afr. *9103*, *10937*, *8785*, *12364*, *14218*.

This appears to differ slightly from *M. linocierae* in length of setae and size of spores. It was reported earlier as *M. amphitricha* (45).

No. 445. **Meliola perpusilla** Sydow, H. & P., Philippine Jour. Sci., C. Bot., **8**: 480. 1913.

On Asclepiadaceae: Tylophora.

Type locality: Luzon, Philippines, Bur. Sci. *20257* McGregor.

Citations: 4, 222, 301.

Specimen: Baker, Fungi Mal. *366*.

No. 446. **Meliola perpusilla** Sydow, H. & P. var. **congoensis** Beeli, Bul. Jard. Bot., Bruxelles **7**: 97. 1920.

On Asclepiadaceae.

Type locality: Congo, Africa, Vanderyst *2744*.

Specimen: the type.

No. 447. **Meliola ochnae** Doidge, Trans. Roy. Soc. So. Africa 8: 141. 1920.

On Ochnaceae: Ochna.

Type locality: Natal, South Africa, Doidge *11567*.

Citation: 51*.

Specimen: the type.

No. 448. **Meliola villaresiicola** Spegazzini, An. Mus. Nac., Buenos Aires, 32: 379. 1924.

On Icacinaceae: Villaresia.

Type locality: Argentine.

No. 449. **Meliola falcatiseta** Spegazzini var. **alternipes** Spegazzini, An. Mus. Nac., Buenos Aires, 32: 374. 1924.

On Simarubaceae: Castela.

Type locality: Argentine.

New record: On Simarubaceae: Picramnia antidesma. Costa Rica, El Alto, July 6, 1924, *242a*.

No. 450. **Meliola elmeri** Sydow, H., Leaf. Philippine Bot. 5: 1537. 1912.

On Pittosporaceae: Pittosporum.

Type locality: Palawan, Philippines *12707*.

Citations: 4, 301, 275.

Specimens: the type, Phil. Bur. Sci. *12707*, Syd., Fungi Exot. Exs. *371*.

*Meliola amphitricha* (Fries) Fries var. *pungens* Patouillard, Bul. Soc. Mycol. France 34: 89. 1918, also described on Pittosporum from Madagascar may well be identical with this species.

New record: On Pittosporum dasycaulon. India, Ghat Forests, Oct. 1919. No. *1983*. Leg. Sedgwick.

Citation: 264a.

No. 451. **Meliola alstoniae** Koorders, Verhandel. K. Akad. Wetensch. Amsterdam 13: 170. 1907.

On Apocynaceae: Alstonia.

Type locality: Asia.

Distribution: Asia 129; Los Baños, Philippines, 301, 218, 202, 4, 5.

Citations: 202, 301.

Specimens: Baker, Fungi Mal. *360*, Phil. Bur. Sci. *12825*.

Variation in spore septation is reported as 1 -4, usually 4.

No. 452. **Meliola molfinoi** Spegazzini, An. Mus. Nac., Buenos Aires, 32: 381. 1924.

On Phytolaccaceae: Achatocarpus.

Type locality: Paraguay, Balansa *2745*.

This was incorrectly reported as *M. araliae* (241).

No. 453. **Meliola eriophora** Spegazzini, An. Soc. Cient. Argentina 26: no. 62. 1888.

On Moraceae: Ficus 241, 83, 255. On Nyctaginaceae: Pisonia 251.

Type locality: Paraguay.

Distribution: Paraguay 241, 83; Argentine 255; Brazil 251.

Citation: 263*.

Specimen: the type.

Spores larger than those of the original description. 53, are reported by Gaillard (83) and Spegazzini (255).

No. 454. **Meliola atricapilla** Starbäck, Ark. Bot. 2: 9. 1904.

On Aristolochiaceae: Aristolochia 311, 313, 195, 206.

Type locality: Paraguay.

Distribution: Paraguay 258, 313, 195, 311.

Citations: 267, 258*.

Specimen: Rick, Fungi aust.-amer. *324*.

No. 455. **Meliola aristolochiicola** n. sp.

Colonies amphigenous, more commonly epiphyllous, densely black, circular, 2—3 mm. in diameter, crustose. Mycelium coarse, 7—8 μ. Capitate hyphopodia alternate. Stalk cell short, 3—7 μ; head cell 14—25 × 14 μ, obovate, clavate or irregularly cylindrical. Mucronate hyphopodia ampulliform.

Perithecial setae none. Mycelial setae 230—9 μ, simple, black, acute. Perithecia globose, smooth, 150—170 μ in diameter. Asci evanescent. Spores 4-septate, 43 × 14 μ.

Group number 3111.3221. Fig. 76.

On Aristolochiaceae: Aristolochia maxima. Panama, Tapia, Aug. 15, 1923, *1005*.

No. 456. **Meliola mitragynes** Sydow, H. & P., Philippine Jour. Sci., C. Bot., 8: 478. 1913.

On Rubiaceae: Mitragyne.

Type locality: Luzon, Philippines, Bur. Sci. *20253* McGregor.

Citation: 353.

Specimen: Phil. Bur. Sci. *25900*.

No. 457. **Meliola fagraeae** Sydow, H. & P., Annal. Mycol. 12: 519. 1914.

On Loganiaceae: Fagraea.

Type locality: Camarines, Philippines, Bur. Sci. *22222* Ramos.

Citations: 353, 271.

Specimen: the type.

No. 458. **Meliola guareae** Spegazzini, An. Mus. Nac., Buenos Aires, 23: 42. 1912.

On Meliaceae: Guarea.

Type locality: Argentine.

Distribution: Argentine 249, 255; Porto Rico 261.

Citations: 263*, 230a.

Specimen: the type.

No. 459. **Meliola pelliculosa** Sydow, H. & P., Philippine, Jour. Sci., C. Bot., 8: 480. 1913.

On Combretaceae: Lumnitzera. On Labiatae 9.

Type locality: Philippines, on Lumnitzera.

Distribution: Philippines 294, 4. 288; Amboina 271; Congo Africa 10.
Specimen: Syd., Fungi Exot. Exs. *252*.

No. 460. **Meliola pilocarpi** Stevens, Ill. Biol. Mono. 2: 41. 1916.
On Rutaceae: Pilocarpus.
Type locality: Porto Rico, Stevens *7080*.
New record: On Zanthoxylum (?). Panama, Barro Colorado, Sept. 10, 1924, *424*.
Citation 230a.

No. 461. **Meliola borneensis** Sydow, H., Annal. Mycol. 21: 90. 1923.
On Anonaceae: Uvaria.
Type locality: Borneo, Ramos *2138*.
Specimen: the type.

No. 462. **Meliola cylindripoda** Doidge, Trans. Roy. Soc. So. Africa 8: 138. 1920.
On fruit unknown.
Type locality: Natal, South Africa, Doidge M. *11596*.
Citation: 51*.

No. 463. **Meliola durantae** Gaillard, Bul. Soc. Mycol., France, 8: 181. 1892.
On Verbenaceae: Duranta.
Type locality: Quito, Ecuador.
Citations: 84*, 163.
Specimen: Rehm, Ascom. exs. fasc. *22*.

No. 464. **Meliola bataanensis** Sydow, H. & P., Annal. Mycol. 12: 551. 1914.
On Leguminosae: Millettia.
Type locality: Philippines, Merrill *9106*.
Citation: *293*.
Specimens: the type. Phil. Bur. Sci. *26741*.
Yates (354) reports, on what he regards as this species, that the setae are 500–700 μ and occasionally forked, which would give a formula 311/31. 3223.

No. 465. **Meliola ocoteicola** Stevens, Ill. Biol. Mono. 2: 45. 1916.
On Lauraceae: Ocotea. On Sapotaceae: Chrysophyllum.
Type locality: Porto Rico, Stevens *7560*.
Distribution: Porto Rico 261; Dominica 72, 29c.
Citations: 261*, 72, 230a.

No. 466. **Meliola irradians** Gaillard, Le Gen. Mel. 92. 1892.
*Asteroma corallina* Montagne in Herb. *pro parte*.
On Anacardiaceae: Mauria 83. On Euphorbiaceae: Alchornea 83, 184.
Type locality: Chile, Bertero *1087*.
Distribution: Chile 83; Brazil 184.
Citation: 83*.
Specimen: Ule, Myc. Bras. *916a*.

No. 467. **Meliola loxostylidis** Doidge, Trans. Roy. Soc. So. Africa 8: 114. 1920.
On Anacardiaceae: Loxostylis.

Type locality: Natal, South Africa, Doidge *10921*.

Citation: 48*.

Specimen: Union So. Afr. *9026*.

No. 468. **Meliola intricata** Sydow, H. & P., Philippine Jour. Sci., C. Bot., 8: 268. 1913.

On Cyperaceae: Scirpus.

Type locality: Luzon, Philippines, Merrill *7152*.

Citations: 4, 5, 301.

Specimen: Phil. Bur. Sci. *23751*.

No. 469. **Meliola intricata** Sydow, H. & P. var. **major** Beeli, Bul. Jard. Bot., Bruxelles, 7: 96. 1920.

On Vellozinaceae: Barbacenia.

Type locality: Congo, Africa, Vanderyst *2689*.

No. 470. **Meliola ixorae** Yates, Philippine Jour. Sci., C. Bot., 12: 365. 1917.

On Rubiaceae: Ixora.

Type locality: Luzon, Philippines, Bur. Sci. *25841* Yates.

Citation: 275.

Specimen: Phil. Bur. Sci. *45841*.

Though the original description refers to basal perithecial setae, study of Philippine material (*45841* Yates) convinces me that these setae around the perithecium really arise from the mycelium. They are similar in character to the usual mycelial setae, but are somewhat shorter.

No. 471. **Meliola mollinediae** Theißen, Brot. 12: 24. 1914.

On Monimiaceae: Mollinedia.

Type locality: Brazil.

Citation: 320*.

No. 472. **Meliola serjaniae** Stevens, Ill. Biol. Mono. 2: 44. 1916.

On Sapindaceae: Serjania.

Type locality: Porto Rico, Stevens *425*.

Distribution: Porto Rico 261; Costa Rica 277 a.

Citation: 261*.

No. 473. **Meliola serjaniae** Stevens var. **dentata n. var.**

This agrees in all characters except those of the setae with those of the Porto Rican specimens; the setae are however nearly always dentate. The occurence of this identical variation in the two closely related forms, *M. serjaniae* and *M. paullíniae* is noteworthy.

Citation: 280a.

On Serjania triquetra. Panama, Juan Diaz, Aug. 12, 1923, *1243*.

No. 474. **Meliola otophorae** Yates, Philippine Jour. Sci., C. Bot., 13: 235. 1918.

On Sapindaceae: Otophora.

Type locality: British North Borneo.

This appears to be very near to *M. paullíniae*, possibly differing in its alternate branching.

No. 475. **Meliola sydowiana** Stevens & Larson n. sp.

Colony amphigenous, irregular, 1—12 mm. in diameter. Mycelium a dense network of crooked threads, brown, branches usually opposite, 7.5 μ in diameter. Cells 25—37 μ long. Spot none. Capitate hyphopodia alternate or irregular, not opposite, cylindrical to angular or 2—4 lobed, often bent; stalk cell short 3—4 μ; head cell 7—12 ⩾ 10—17 μ. Mucronate hyphopodia ampulliform, 7 ⩾ 11 μ, few, light-brown, drawn out into a long neck.

Perithecial setae none. Mycelial setae numerous, straight or very slightly curved, 7—8 μ wide, 6 μ thick at base, 200—250 μ long, opaque, tip acute. Perithecia globose, 150—170 μ, rough with rounded protuberances. Ostiole none. Asci evanescent. Spores 4-septate, 39—43 ⩾ 10—15 μ, somewhat constricted at septa, obtuse.

Group number 3111. 4221. Fig. 77.

Distributed in Phil. Bur. Sci. *12499*, as *M. amphitricha*.

On Sapindaceae: Sapindus saponaria. Laguna, Luzon. P. I. 1910.

Although this is closely related to several other species of the formula 3111. in which the mycelial setae are acute, differences noted in the shape of the capitate hyphopodia and the length of the setae seem sufficient to justify the erection of a new species. The related species are *I. araliae*, *M. parenchymatica* and *M. paulliniae*, with globose or ovoid hyphopodia and setae much longer than in *M. sydowiana*; *M. thouiniae* with cylindrical hyphopodia and setae 300—400 μ long, and *M. polytricha*, *M. serjaniae* and *M. otophorae* with ovoid, oblong or lobed hyphopodia, but setae longer than those of this species, 250—300 μ and 360—450 μ.

No. 476. **Meliola gregoriana** Stevens, Bish. Mus. Bul. **19**: 39. 1925.

On Liliaceae: Dianella.

Type locality: Oahu, Hawaiian Islands, Forbes-Stevens *2306*.

No. 477. **Meliola stenospora** Winter, Hedw. **25**: 97. 1886.

On Piperaceae: 348, 349, 83, 4, Piper 220, 198, 4. On Borraginaceae: Ehretia 4, 197. On Loganiaceae: Strychnos 8. On Saxifragaceae: Itea 83.

Type locality: St. Thomas, Africa.

Distribution: Africa 348, 349, 83, 220, 4; Brazil 184; India 8; Philippines 198, 197, 4, 196.

Citations: 348*, 83*, 8*, 5.

Specimen: Phil. Bur. Sci. *770*.

No. 478. **Meliola laevigata** Sydow, H. & P., Leaf. Philippine Bot. **5**: 1537. 1912.

On Apocynaceae: Paralstonia.

Type locality: Palawan, Philippines *12784*.

Citations: 292, 4.

Specimen: the type.

No. 479. **Meliola boninensis** Spegazzini, Bol. Acad. Nac. Cient., Cordoba, **26**: 372. 1923.

On Compositae (?): Synanthera (?).

Type locality: Islas Bonin, Wright, Herb. N. Pacif. Expl. Expedition.

No. 480. **Meliola palawanensis** Sydow, H. & P., Leaf. Philippine Bot. **5**: 1539. 1912.

On Rubiaceae: Morinda.

Type locality: Palawan, Philippines *13040*.

Citation: 4.

Specimen: the type.

No. 481. **Meliola parasitica** n. sp.

Colonies dense, black, irregularly circular, 5—10 mm. in diameter, hypophyllous, coincident in size with a diseased spot in the leaf that is visible from both leaf surfaces. Mycelium dark, sinuous, closely matted. Capitate hyphopodia numerous, alternate, stalk cell short, 3—4 μ; head cell ovoid to elongate, irregular to slightly lobed, 18 ⩽ 11 μ. Ampulliform hyphopodia few. Mycelial setae black, straight, acute at tip, long, 800—1000 μ. Perithecia few, 150- 214 μ in diameter, slightly rough. Asci evanescent. Spores 4-septate, 43—47 ⩽ 14—18 μ.

Group number 3111. 4233. Fig. 78.

On Meliaceae: Guarea sp. British Guiana, Kartabo, July 23, 1922, *625*.

The present species is mainly conspicuous for its strongly parasitic character, the spots being of large size and dead, visible from both sides of the leaf. It is usually heavily overgrown by parasites and if so bears but few setae and perithecia. When the parasites are not present the setae are very abundant and perithecia common. Of the three species previously recorded upon Guarea two, *M. guarecicola* and *M. guareae* are distinguished from the present form by their setae. *M. platysperma* the remaining form, agrees in formula, but has much larger spores. *M. sinuosa* and *M. leptochaeta* from Africa and the Occident respectively have a formula of 3111, but the former has shorter setae and smaller spores, while the latter differs in general habit and length of setae.

A second *Meliola* of very different character was present on some of these leaves but was undeterminable due to lack of perithecia.

No. 482. **Meliola italica** (Saccardo) n. sp.

*Meliola cyperi* var. *italica* Saccardo, Annal. Mycol. **1**: 24. 1903.

Group number 3111. 4233.

On Cyperaceae: Cladium.

Type locality: Italy.

Citations: 153, 2*.

Specimens: the type. Myc. Ital. *1022*.

Examination of the type specimen kindly loaned to me by Dr. Trotter shows the setae to be simple, —540 μ long, the hyphopodia alternate and ovate to oblong and irregular.

No. 483. **Meliola sinuosa** Doidge, Trans. Roy. Soc. So. Africa 5: 735. 1917.
On Meliaceae: Trichilia.
Type locality: Natal, South Africa, Doidge *1783*.
Citation: 45*, 18b.
Specimens: the type. Union So. Afr. *9036*.

No. 484. **Meliola chaetochloae** n. sp.

Colony small, 1—3 mm., circular, loose, mostly epiphyllous. Mycelium straight or crooked, rather close. Spot circular, pale, exceeding the size of the colony by 1—2 mm. Capitate hyphopodia alternate. Stalk cell short, 3 μ; head cell ovate to cylindrical to slightly irregular, 11—14 μ. Mucronate hyphopodia ampulliform, opposite or alternate.

Perithecial setae none. Mycelial setae few, 270—310 μ long, pale at tip, acute. Perithecia globose, smooth, 107—140 μ. Asci evanescent. Spores 4-septate, 29—32 × 11—13 μ, constricted.

Group number 3111. 3222. Fig. 79.

On Gramineae: Chaetochloa sulcata. Ecuador, Tercecita, Oct. 30, 1924, *138*.

This species differs from *M. pauxi* in its more pale color throughout, shorter setae, more regular head cells, shape of mucronate hyphopodia, and in parasitic habit. It differs from *M. pauxicola* in its shorter setae with acute apices and more regular capitate hyphopodia, also in its parasitic habit. As with *M. pauxi* the longitudinal strands of mycelium are straight, these across the leaf are crooked.

No. 485. **Meliola substenospora** v. Höhnel, Sitzber. K. Akad. Wiss. Wien (Vienna), Math.-natur. Kl. 118: 317. 1909.

On Gramineae: 9, Phragmites 104, 193, Rottboellia 294, 201, 5, Oplismenus 294, 86.

Type locality: Buitenzorg, Java, on Phragmites.
Distribution: Java 104, 193, 86; Philippines 294, 201, 288, 86; Africa 9.
Citations: 5, 201.
Specimens: Baker, Fungi Mal. *450*, *45*. Phil. Bur. Sci. *8053*. Syd., Fungi Exot. Exs. *382*, *173*.

No. 486. **Meliola torta** Doidge, Trans. Roy. Soc. So. Africa 5: 726. 1917.
On Hamamelidaceae: Trichocladus.
Type locality: Natal, Africa.
Citation: 45*.
Specimen: the type.

No. 487. **Meliola macarangae** Sydow, H. & P., Annal. Mycol. 15: 188. 1917.
*Meliola aparaensis* Yates, Philippine Jour. Sci., C. Bot., 13: 364. 1918.
On Euphorbiaceae: Macaranga.
Type locality: Laguna, Philippines, Bur. Sci. *23780* Ramos.
Citation: 273.
Specimen: Phil. Bur. Sci. *28331*, *24045*.

No. 488. **Meliola hippomaneae** n. sp.

Colony crustose, dense, epiphyllous. Mycelial branching mostly alternate, regular, thick, 7–8 μ. Spot pale, slightly exceeding the colony in size. Capitate hyphopodia alternate, crowded. Stalk cell short, 4–7 μ; head cell large, very irregular, several angled, 22—25 ⩽ 18—22 μ. Mucronate hyphopodia ampulliform, 18 ⩽ 7—8 μ.

Perithecial setae none. Mycelial setae few, black, stiff, simple, acute, 350–415 ⩽ 10–11 μ. Perithecia globose, smooth, 150 μ. Asci evanescent. Spores 4-septate, 50 ⩽ 18 μ.

Group number 3111. 4222. Fig. 80.

On Euphorbiaceae: Hippomane mancinella. Panama, Paitilla Pt., Sept. 8. 1924. *375*.

The only species described on the Euphorbiaceae that resemble this are *Meliola excoecariae* and *Meliola gymnanthicola*. It differs from the former in colony, size, position, and general colony characters and from the latter in shape of capitate hyphopodia.

No. 489. **Meliola piperina** Sydow, H. & P., Annal. Mycol. **14**: 358. 1916.

On Piperaceae: Piper.

Type locality: Los Baños, Philippines, Baker *4046*.

Citation: 301.

Specimens: Baker, Fungi Mal. *367*. Phil. Bur. Sci. *23749*.

No. 490. **Meliola excoecariae** Doidge, Trans. Roy. Soc. So. Africa **8**: 139, 1920.

On Euphorbiaceae: Excoecaria.

Type locality: Natal, South Africa.

Citation: 51*.

Specimen: Union So. Afr. *11566*.

No. 491. **Meliola uleana** Pazschke, in Gaillard, Le Gen. Mel. 90. 1892.

On Cyperaceae: Eleocharis.

Type locality: Brazil, Ule *223*.

Citations: 83*, 166.

No. 492. **Meliola cryptocaryae** Doidge, Trans. Roy. Soc. So. Africa **8**: 112. 1920.

On Lauraceae: Cryptocarya.

Type locality: Natal, South Africa, von der Byl N. H. *517*.

Citations: 48*, 51.

Specimen: Union So. Africa *9025* (compared with type).

No. 493. **Meliola rudolphiae** Stevens, Ill. Biol. Mono. **2**: 43. 1916.

On Leguminosae: Rudolphia.

Type locality: Porto Rico, Stevens *4791*.

Citations: 261*, 230a.

No. 494. **Meliola rhois** Hennings, Bot. Jahrb. (Engler) **17**: 523. 1893.

*Meliola rhois* Hennings var. *tenuis* Doidge, Trans. Roy. Soc. So. Africa **5**: 734. 1917.

On Anacardiaceae: Rhus 88, 45, 18, Harpephyllum 45.
Type locality: Brazil.
Distribution: Brazil 88; South Africa 45, 18.
Citation: 45*.
Specimens: the type, Union So. Afr. *6804*, *1230*.
The variety *tenuis* was described by Miss Doidge as with more slender, longer cells, and with the capitate hyphopodia more often smooth.

No. 495. **Meliola capsicola** Stevens, Ill. Biol Mono. 2: 11. 1916.
On Solanaceae: Capsicum.
Type locality: Porto Rico, Stevens *7698*.
Distribution: Porto Rico 261; Dominica 72, 29c.
Citations: 261*, 230a.

No. 496. **Meliola acanthopoda** Patouillard, in Patouillard & Lagerheim, Bul Soc. Mycol., France, **11**: 222. 1895.
On leaves of trees.
Type locality: Ecuador.

No. 497. **Meliola velutina** Winter, Hedw. **25**: 97. 1886.
On Cannaceae: 349, 83. On Guttiferae: Symphonia 21. On Cyperaceae 184.
Type locality: St. Thomas, Africa.
Distribution: Africa 349, 21, 348, 83; Brazil 184.
Citation: 348*.

No. 498. **Meliola setulifera** (Spegazzini) n. sp.
*Meliola persea* Stevens forma *setulifera* Spegazzini, Bol Acad Nac Cient., Cordoba, **26**: 380. 1923.
On Lauraceae: Persea.
Type locality: Florida, U. S. A., Rav. *82*.
Specimen: Rav., Fungi Amer. *82* sub. *Meliola amphitricha* Fr.

No. 499. **Meliola acutiseta** Sydow, H. & P., Leaf. Philippine Bot. **6**: 1921. 1913.
On Lauraceae: Persea.
Type locality: Philippines *13312*.
Citations: 4, 5.
By typographical error given as *acutiseta* in first publication.
Specimen: the type.

### Leptomeliola and Meliolinopsis.

*Meliolinopsis* Beeli, Bul. Bot. Jard., Bruxelles, **7**: 101. 1920.
Beeli defines this genus as having the character of a Meliola, but with asci persistent, generally 8-spored and paraphysate.
The type assigned to the genus by Beeli is *M. calosporia*. Since this species, however, possesses no hyphopodia it does not agree with the characters as given for the genus by its author and must therefore be excluded from the genus. The same may be said of *M. megalospora* the first species named by Beeli.

*Leptomeliola* v. Höhnel, Sitzber. K. Akad. Wiss. (Vienna), Math.-natur. Kl. **128**: 557. 1919.

v. Höhnel characterizes this genus as with or without setae, asci persistent, 8-spored, spores spindleform, 4—6 celled with small, almost hyaline, end cells, paraphyses numerous, and often with Arthrobotryum as a conidial form. He cites *L. hyalospora* (Lév.) v. Höhnel as the type of the genus.

The possession of the persistent ascus with more than four spores is a very significant character and well warrants setting these forms possessing them aside as a genus distinct from Meliola. The presence of hyphopodia is also important since their absence would throw a species into Meliolina.

Ten forms are considered herewith, which, from their descriptions, appear to be of the Meliolinae as shown by their mycelium, hyphopodia and spores, but which have 8-spored, persistent asci, and would therefore appear to belong to one of the two genera named in the caption above. Since, however, I have no good, reliable material of any of these forms I do not presume to assign any of them to either genus, but merely list them here under names already used for them.

I deem it extremely probably, however, that many if not all of these 8-spored forms will upon proper study prove to be Pyrenomycetes parasitic upon Meliolas, and that the existing accounts confuse in description the Meliola host and the 8 spored parasite; that a relation here exists quite like that shown by *Meliolina paulliniae*, *M. irenicolum*, and *M. meliolae* and which I believe also exists in the case of *M. cymbisperma*. (See p. 293.)

## Conspectus of Leptomeliola-Meliolinopsis.

No setae present

Spores 5-septate

4101. 3130, colony 5—15 mm., hc. pyriform, on Fagaceae . . . . . *quercina* No. 1.

4101. 4220, colony 2—8 mm., hc. globose, on Ericaceae . . . . . *callosperma* No. 2.

Spores 4-septate

31--. 534-, colony 1—2 mm., on Sterculiaceae . *tedradeniae* No. 3.

3103. 3130, hc. globose, on Anonaceae . . . . . *javensis* No. 4.

Setae present.

Spores 3-septate

2111. 3231, hc. sub-globose, setae 300 μ, obtuse, on Urticaceae . . . . . *leucosykeae* No. 5.

2111. 4132, colony 2 cm., setae 250 μ, obtuse, on Anonaceae . . . . . *uvariae* No. 6.

Spores 5-septate

4111. 3231, colony crustose, setae 250—300 μ, obtuse, on Palmae . . . . . *manaosensis* No. 7.

Spores 4-septate

3411. 4231, setae 120 μ, ch. irregularly subglobose, on Apocynaceae . . . . . *clavatispora* No. 8.

3122. 3221, setae 220—250 μ, ch. angled, on Leguminosae . . . . . *curviseta* No. 9.

3111. 4221, colonies 2—5 mm., setae 200—300 μ, hc. very crowded, on Lauraceae . . . . . *anomala* No. 10.

No. 1. **Leptomeliola quercina** (Patouillard) v. Höhnel, Sitzber. K. Akad. Wiss. Wien (Vienna), Math.-natur. Kl. **128**: 558. 1919.

*Meliolinopsis quercina* (Patouillard) Beeli, Bul. Jard. Bot., Bruxelles, 7: 119. 1920.

*Meliola quercina* Patouillard, Jour. Bot. **4**: 61. 1890.

On Fagaceae: Quercus.

Type locality: Tonkin, China.

Citations: 155*, 213, 83*, 2, 3.

Specimen: Roum., Fungi sel. Gall. exs. *5945*.

No. 2. **Meliolinopsis callosperma** (Spegazzini) Beeli, Bul. Jard. Bot., Bruxelles, **8**: 120. 1920.

*Meliola callosperma* Spegazzini, Bol. Acad. Nac. Cient., Cordoba, 23: no. 275. 1919.

On Ericaceae: Gaylussacia.

Type locality: Apiahy, Brazil, Puiggari no. *315*.

No. 3. **Meliolinopsis tetradeniae** (Berkeley) Beeli, Bul. Jard. Bot., Bruxelles, **7**: 119. 1920.

*Dothidea tetradeniae* Berkeley, in Berkeley & Cooke, Jour. Linn. Soc. **14**. 136. 1875.

*Homostegia tetradeniae* (Berkeley) Saccardo, Syll. **2**: 650. 1883.

*Meliola tetradeniae* (Berkeley) Theißen & Sydow, Annal. Mycol. **12**: 177. 1914.

On Sterculiaceae: Tetradenia.

Type locality: Ceylon.

No. 4. **Leptomeliola javensis** v. Höhnel, Sitzber. Akad. Wiss. Wien (Vienna), Math.-natur. Kl. **128**: 559. 1919.

On Anonaceae: Uvaria (?).

Type locality: Java.

No. 5. **Meliola leucosykeae** Yates, Philippine Jour. Sci., C. Bot., 12: 366. 1917.

On Urticaceae: Leucosyke.

Type locality: Samar, Philippinis. Bur. Sci. *24021* Ramos.

Specimen: the type.

It is a question whether the setae here found belong to the Meliola, moreover, the spores are not typical Meliola spores and it is extremely probable that two forms are here confounded.

No. 6. **Meliolinopsis uvariae** (Rehm) Beeli, Bul. Jard. Bot., Bruxelles, **7**: 119. 1920.

*Meliola uvariae* Rehm, Philippine Jour. Sci., C. Bot., **8**: 251. 1913.

On Anonaceae: Uvaria.

Type locality: Luzon, Philippines, *680*, Baker.

Citations: 201, 202, 4.

Specimen: Baker, Fungi Mal. *46*. The specimen examined is very heavily parasitized by *Helminthosporium*.

Three-septate spores of the Meliola form are found, but this very well may be a case of a parasite on a Meliola.

No. 7. **Meliolinopsis manaosensis** (Hennings) Beeli, Bul. Bot. Jard., Bruxelles, **7**: 120. 1920.

*Meliola manaosensis* Hennings, Hedw. **43**: 366. 1904.

On Palmae: Mauritia.

Type locality: Manaos, Amazon, Ule *3145*.

Citation: 101.

Specimen: Ule, Myc. Bras. *59*.

The only specimens available are very heavily parasitized.

No. 8. **Meliolinopsis clavatispora** (Spegazzini) Beeli, Bul. Jard. Bot., Bruxelles, **7**: 119. 1920.

*Meliola clavatispora* Spegazzini, Bol. Acad. Nac. Cient., Cordoba, **11**: 500. No. 241. 1889.

On Apocynaceae.

Type locality: Apiahy, Brazil no. *1701*.

Distribution: Brazil 242, 83.

Citations: 116, 263*, 3, 29b.

Specimen: ex the type. The type specimen is very heavily parasitized.

No. 9. **Meliolinopsis curviseta** (Raciborski) Beeli, Bul. Jard. Bot., Bruxelles, **7**: 119. 1920.

*Meliola curviseta* Raciborski, Parasitische Algen und Pilze Java's **3**: 33. 1900.

On Leguminosae: Phanera.

Type locality: Java.

No. 10. **Meliolinopsis anomala** (Tracy & Earle) Beeli, Bul. Jard. Bot., Bruxelles, **7**: 144. 1920.

*Leptomeliola anomala* (Tracy & Earle) v. Höhnel, Sitzber. K. Akad. Wiss. Wien (Vienna), Math.-natur. Kl., Ab. I, **128**: 558. 1919.

*Meliola anomala* Tracy & Earle, Bul. Torrey Bot. Club **28**: 184. 1901.

On Lauraceae: Persea.

Type locality: U. S. A., Florida.

Citation: 116.

Specimen: Ule *59*. The specimen is very heavily parasitized.

## Excluded species.

No effort is here made to include all of the various synonyms, or citations to the voluminous literature, but to include sufficient information to enable the student to readily become acquainted with the status. The forms are arranged alphabetically by their Meliola binomials. No attempt is made to assign these forms to their proper genus other than to give as synonyms the various genera to which they have been referred, and occasionally to quote such opinions as seem worthy of note.

No. 1. *Meliola abietis* (Cooke) Saccardo, Syll. Fung. **1**: 69. 1882.
*Apiosporium abietis* Cooke, Grev. **9**: 94. 1881.
Citations: 32, 355.

No. 2. *Meliola abjecta* (Wallroth) Schroeter in Rab. Fungi europ. *2424*.
*Sphaeria abjecta* Wallroth, Fl. Crypt. Germ. **2**: 810. 1833.
*Dothidea veronicae* Libert, Fl. Crypt. Ard. II, n. 173. 1832—1837.
*Dimerosporium abjectum* Wallroth, Fuckel Symb. Myc. 89. 1869.
*Capnodium sphaericum* Cooke, Handb. *2808*. 1892.
*Asteroma veronicarum* Rabh., Herb. Myc. Ed. **2**: 739.
*Asterina veronicae* (Libert) Cooke, Grev. **5**: 122. 1876.
*Asteroma veronicae* Desmazières in Marchal, Crypt. Belg. 76.
*Dimerosporium veronicae* (Libert) Arn., Thesis, 1918.
Citations: 317, 174.

No. 3. *Meliola amphitricha* (Fries) Fries, Elenchus Fungorum 109. 1828.
*Sphaeria amphitricha* Fries, Syst. Mycol. **2**: 513. 1823.
*Meliola concinna* Mtg. in herb.
*Meliola panicea* Mtg. in herb.
*Meliola capnodioides* Thüm., Fung. Austro-Afr. no. 53.
This specific name, though long accepted by mycologists must, as Arnaud (2) has clearly shown, be rejected for the reasons he has so cogently stated.

Since the actual type that Fries had in mind could not be determined Patouillard selected the specimens used by Montagne (Sagra), specimens that had been examined by Fries. From these, the most nearly authentic specimens available, Patouillard gave a detailed description leading to the formula 3111. 4322, agreeing with that of Gaillard, from similar specimens. The most significant characters given are: large colonies, mycelium 8—10 μ thick, capitate hyphopodia 20—30 μ long, head cell clavate, truncate, 15—20 μ thick at tip, setae acute or obtuse, septate, 400 μ long; but even in these studies the host was unknown or was not mentioned. Thus the early descriptions are all inadequate. It is unknown on what hosts the specimens on which they were based occured and is utterly impossible, if one wished to retain the name, to know to what morphologic form properly to assign it. The early descriptions of *M. amphi-*

*tricha* mentioned above indicate a Meliola of the largest section of the genus, which comprises more than 100 species, to almost any one of which the description of *M. amphitricha* might apply. Since the time of Fries *Meliola amphitricha* has been reported on families and genera as follows:

On Acanthaceae: Justicia.
On Anacardiaceae: Schinus, Rhus.
On Apocynaceae: Alyxia.
On Araliaceae: Aralia, Cussonia.
On Bignoniaceae: Jacaranda.
On Burseraceae: Hedwigia.
On Caprifoliaceae: Viburnum.
On Celastraceae.
On Combretaceae: Terminalia.
On Compositae.
On Cornaceae: Garrya.
On Cyperaceae: Cladium, Rhynchospora, Scleria.
On Flacourtiaceae: Casearia.
On Gramineae: Bambusa, Paspalum, Panicum.
On Hippocrateaceae: Hippocratea, Salacia.
On Labiatae: Plectranthus.
On Lauraceae: Persea.
On Leguminosae: Andira, Acacia, Pithecolobium, Tamarindus.
On Loranthaceae: Loranthus.
On Lythraceae: Lithraea.
On Magnoliaceae: Drymis, Magnolia.
On Malvaceae: Abutilon.
On Melastomataceae: Memecylon.
On Meliaceae: Dysoxylon, Trichilia.
On Myrtaceae: Psidium, Eucalyptus.
On Oleaceae: Olea, Osmanthus, Jasminum.
On Palmae: Phoenix.
On Polygonaceae: Coccoloba.
On Phytolaccaceae: Phytolacca.
On Rubiaceae: Gardenia, Grumilea, Mitriostigma, Plectronia, Psychotria.
On Rutaceae: Amyris, Flindersia.
On Sapindaceae: Cupania, Sapindus, Serjania.
On Scitamineae.
On Solanaceae.
On Symplocaceae: Symplocos.
On Verbenaceae: Callicarpa.

*M. amphitricha* has been reported also from following localities:

South America:

Chile, Surinam, Insula Gallie, Argentine, Peru, Paraguay, Brazil, Venezuela, Guiana.

Asia:

Java, Senegambia, Borneo, China, Tonkin, India, Japan, Philippines.

Oceania:

New Zealand, Victoria, Australia, Tahiti.

North America:

United States of America, Nicaragua, Porto Rico, Cuba, St. Domingo.

Africa:

St. Thomas, Congo, South Africa, East Africa.

Thus the literature regarding this form is by far greater for any other species.

Most of these reports are, however, worse than useless because they usually indicate merely that a Meliola of the formula 3111 was seen, therefore aside from all other reasons it is desirable to be rid of this misleading name.

No. 4. *Meliola baccharidis* Berkeley & Ravenel, Grev. **4**: 158. 1876.
*Asterina melioloides* B. & C., Grev. **4**: 10. 1876.
*Dimerosporium baccharidis* (Berk. & Rav.) Saccardo, Syll. Fung. **1**: 53. 1882.
*Dimeriella melioloides* (B. & C.) Theißen, Annal. Mycol. **10**: 1. 1912.
*Dimerosporium melioloides* (Berk. & C.) Ellis, Jour. Mycol. **1**: 146. 1885.
*Meliola ravenelii* Berk., in herb.
*Asteridium coronatum* Speg., Fungi Guar. **2**: 48. 1888.
*Dimerosporium puiggarii* Speg., Fungi Puigg., no. 217. 1889.
*Dimerosporium annulatum* Rehm, Hedw. **35**: 53. 1896.
*Asterella longiseta* Starb., Asc. I. Regn. Exp. I, p. 25. 1899.
*Asterina microtheca* Pat., Bul. Soc. Mycol. France **18**: 301. 1902.
*Asteridium distans* Rehm, Hedw. **40**: 157. 1901.
*Asterella trichodea* Rehm, Hedw. **40**: 159. 1901.
*Dimeriella horridula* Syd., Annal. Mycol. **7**: 352. 1909.
*Dimerosporium gnaphalii* P. Henn., Hedw. **41**: 279. 1902.
On Galax, Arundinaria, Laurus, Mitchella, Baccharis.

No. 5. *Meliola balsamicola* Peck, N. Y. Mus. Rpt. **34**: 52. 1881.
*Asterina nuda* Peck, Rpt. **38**: 102. N. Y. St. Mus. Rpt. 1885.
*Asterella nuda* (Peck) Saccardo, Syll. Fung. **9**: 397. 1891.
*Dimerosporium balsamicola* (Peck) Ellis & Everhart, N. Amer. Pyrenom. 728. 1892.
*Zukalia balsamicola* (Peck) Saccardo, Syll. Fung. **9**: 432. 1891.
*Zukalia sordidula* (Léveillé) Saccardo, Syll. Fung. **9**: 432. 1891.
*Cryptopus balsamicola* (Peck) Theißen, Annal. Mycol. **12**: 407. 1916.
*Cryptopus nudus* (Peck) Theißen, Annal. Mycol. **12**: 73. 1914.
On Abies.

No. 6. *Meliola berkeleyi* Patouillard, Rev. Mycol. **10**: 136. 1888.
On Magnoliaceae: Drymis.
Type locality: Queensland, Australia, no. *270*, Berkeley & Broome.

Originally reported under the name *M. corallina* Montagne by Berkeley & Broome.

Citation: 15*.

No. 7. *Meliola (Meliopsis) calendulae* Malbranche & Roumeguère, Rev. Mycol. **8**: 90. 1886.

On Calendula.

Referred to Sphaerotheca (218).

No. 8. *Meliola camelliae* (Cattaneo) Saccardo, Syll. Fung. **1**: 62.

*Fumago camelliae* Cattaneo in Arch. Trienn. Lab. Crittog., Pavia, II.

On Camellia, Citrus, Thea.

Citations: 339, 268, 27, 140, 170*, 137, 217, 260.

Specimen: Biriosi & Cav., Fungi Par. *106*.

The fungus, known so widely in the literature as *Meliola camelliae*, clearly belongs to the Capnodiaceae.

No. 9. *Meliola citri* (Briosi & Passerini) Saccardo, Syll. Fung. **1**: 69. 1882.

*Apiosporium citri* Briosi & Passerini, Trans. Acad. Lincei **1**: 1877.

*Chaetophoma citri* Saccardo, Syll. Fung. **3**: 200. 1884.

On Citrus.

Citations: 217, 27*, 170*.

Specimen: Roum., Fungi Sel. Gall. Exs. *4841*.

No. 10. *Meliola citricola* K. Hara, in Shidzuoka-ken Nokwaiho (Jour. Agr. Soc., Shidzuoka, Prefecture No. 263: 8—9. 1919) (not *M. citricola* Sydow).

*Meliola harana* Trotter Syll. Fung. **24**: 337. 1926.

On Citrus.

Citation: 308.

This is not a Meliola but probably is of the Capnodiaceae (275).

No. 11. *Meliola clavispora* Patouillard, Jour. Bot. (Paris) **4**: 61. 1890.

*Patouillardina clavispora* (Patouillard) Arn. Thesis 1918.

*Meliolaster clavisporus* (Patouillard) v. Höhnel, Ber. Deut. Bot. Ges. **35**: 700. 1917.

*Meliolinopsis clavispora* (Patouillard) Beeli, Bul. Jard. Bot., Bruxelles, **8**: 119. 1920.

On Myrtaceae: Eugenia.

Distribution: Tonkin.

Citations: 155*, 83*, 69*, 116, 113, 2.

Specimen: Roum., Fungi Sel. Gal. Exs. *5631*.

v. Höhnel states that this is truly of the Microthyriaceae and makes it the type of a new genus Meliolaster v. Höhnel (not Doidge).

No. 12. *Meliola cryptocarpa* Ellis & Martin, Amer. Nat. **17**: 1284. 1883.

On Theaceae: Gordonia 67, 134, 83. On Rubiaceae: 9.

Type locality: South U. S. A., Florida, on Gordonia.

Citations: 83*, 64.

Specimen: Ellis & Everhart, N. Amer. Fungi *1293*.

The type specimen, N. A. F. *1293*, is very heavily parasitized and undeterminable. The original description was based almost entirely on the conidial parasite. The redescription by Gaillard is also so based. Gaillard does not mention 8-spored asci, as did Ellis and Martin. There is undoubtedly a Meliola here but from no description or specimen can it be recognized.

No. 13. *Meliola cymbisperma* Montagne, Ann. Sci. Nat., Sér. 2., Bot., **20**: 374. 1843.

On Liliaceae: Smilax.

Type locality: Surinam.

Specimen: the type.

The portion of the type specimen of *M. cymbisperma* Mont. in the Kew herbarium consists of a small fragment of leaf 1 × 1.5 cm bearing one large and several small colonies. The small colonies bear no perithecia or setae and are of the Irene group. The large colony bears numerous setae and globose, smooth perithecia with prominent ostioles and bear asci and spores precisely are as figured by Gaillard for *M. hyalospora*.

The perithecia and asci suggest that we have here a fungus, possibly a Meliolina, parasitic upon one of the Irene group, but definite proof of this can not be adduced without more study of the type specimen than I felt at liberty to make.

No. 14. *Meliola fenestrata* Cooke & Ellis, Grev. **5**: 95. 1877.

*Meliola (Pleomeliola) fenestrata* Cooke & Ellis, Syll. 1: 70. 1882.

*Limacinia (?) fenestrata* Sacc., Syll. **14**: 475. 1890.

On Pinus.

Citations: 134, 64.

No. 15. *Meliola fuliginodes* (Rehm) Saccardo in Gaillard, Le Gen. Mel. 124.

*Capnodium fuliginodes* Rehm, Ascom. N. *245*. 1874.

*Spheconisca humilis* Norman, in Bot. Not. 174. 1876.

On Acer.

Specimens: Rehm, Ascom. *245*, De Thüm., Myc. Univ. *1147*.

This fungus is Capnodiaceous.

No. 16. *Meliola fumago* Niessl, Hedw. **20**: 99. 1881.

*Dimerosporium fumago* (Niessl) Sacc., Syll. Fung. **1**: 53. 1882.

*Asterina pemphidioides* Cooke, Grev. **5**: 16. 1876.

*Lembosia tenella* Léveillé.

*Dimerium fumago* (Niessl) Sacc. & Syd., Sylloge **17**: 537. 1905.

*Lembosia fumago* (Niessl) Winter, Flora **67**: 266. 1884.

*Asterina fumago* (Niessl) v. Höhnel, Sitzber. Akad. Wiss. Wien. **119**: 435. 1910.

On Celastrus.

Citation: 318.

Specimen: Rab., Wint. & Pazsch., Fungi europ. *2513*.

No. 17. *Meliola heteromeles* (Cooke & Harkness) Berlese & Voglino in Saccardo, Syll. ad. Fung. **1—4**: 20. 1886.

*Meliolopsis heteromeles* Cooke & Harkness, Grev. **13**: 21. 1884.

*Zukalia heteromeles* (Cooke & Harkness) Saccardo, Syll. **9**: 432. 1891.

No. 18. *Meliola hibisci* (Sprengel) Fries.

*Sphaeria amphitricha* a. *hibisci* Fries, Syst. Myc. **2**: 513. 1823.

*Amphitrichum hibisci* Sprengel.

*Meliola amphitricha.*

Citations: 2, 71, 29b.

No. 19. *Meliola hyalospora* Léveillé, Ann. Sci. Nat., Sér. 3., Bot., **5**: 256. 1846.

*Leptomeliola hyalospora* (Léveillé) v. Höhnel, Sitzber. K. Akad. Wiss. Wien (Vienna), Math.-natur. Kl., Ab. 1, **128**: 558. 1919.

*Meliolinopsis hyalospora* (Léveillé) Beeli, Bul. Jard. Bot., Bruxelles, **7**: 119. 1920.

On Palmae: Desmoncus. On Dilleniaceae: Acrotrema. On Liliaceae: Smilax.

Type locality: Batavia, Guiana, on Desmoncus.

Distribution: Surinam; Ceylon.

Citations: 19*, 20, 14, 83*, 116, 69*, 147, 11*, 154, 25, 3, 313.

This is probably identical with *M. cymbisperma*, see p. 293. My only specimen, Kegel *594*, is heavily parasitized and shows no perithecia.

No. 20. *Meliola kydia* Saccardo, Bull. d. Orto Bot. di Napoli **6**: 13. 1921.

On Garcinia.

Description inadequate.

No. 21. *Meliola loganiensis* Saccardo & Berlese, Atti R. Ist. Veneto Sci. Let. & Art. **3**: Ser. 6.

*Zukalia loganiensis* (Saccardo & Berlese) Saccardo & Berlese, in Syll. Fung., **9**: 431. 1891.

*Asterina splendens* Pat., Jour. Bot. 148. 1888.

*Parodiopsis ? splendens* (Pat.) Arn., Ann. Epiph. **7**: 51. 1921.

On Smilax.

Citations: 31, 3.

No. 22. *Meliola macalpini* Saccardo & Sydow, Syll. Fung. **14**: 471. 1897.

*Meliola denticulata* McAlpine, Proc. Linn. Soc. N. S. Wales **22**: 700. 1897. (not *Meliola denticulata* Winter).

On Meliaceae: Dysoxylon.

Citation: 138*.

In none of the publications regarding this form are characters mentioned which would show it to be a Meliola, nor do such characters appear in the original illustrations. The spore as figured is quite unlike those of Meliola in shape and dimensions.

No. 23. *Meliola macowaniana* Thümen, Flora, N. S., **59**: 569. 1876.
*Asterina macowaniana* (Thümen) Kalchbrenner & Cooke, Grev. **9**: 33. 1880.
*Dimerosporium macowanianum* (Thümen) Saccardo, Syll. Fung. **1**: 53. 1882.
*Englerula macowaniana* (Thümen) v. Höhnel, Frag. **10**: no. 490, 28. 1910.
*Parenglerula macowaniana* (Thümen) v. Höhnel, Sitzber. K. Akad. Wiss. (Vienna), Math.-natur. Kl. **119**: 465. 1910.
*Dimerium macowanianum* (Thümen) Doidge, Trans. Roy. Soc. So. Africa **5**: 718. 1915.
*Englerulaster macowanianus* (Thümen) Arnaud, Thesis 1918.
On Celastrus.
Citations: 127*, 317, 45, 179, 108, 2.
Specimens: De Thüm., Myc. Univ. *568*. Roum., Fungi Sel. Gal. Exs. *4567*, *568*, Rehm, Ascom. *395*.

No. 24. *Meliola maculosa* Ellis, Bull. Torrey Bot. Club **8**: 91. 1881.
*Dimerosporium ellisii* Saccardo, Syll. Fung. **1**: 54. 1882.
On Andromeda.
Specimen: Ellis & Everhart, N. Amer. Fungi *200*, sub *Venturia maculosa*.

No. 25. *Meliola microthecia* Thümen, Flora **34**: 569. 1876.
On Rutaceae: Barosma.
The original description of this species with the perithecia flattened, asci 6-spored, spores hyaline, clearly does not refer to a Meliola. An entirely different fungus was described by Gaillard under the same name. See p. 259. *M. microthecia* is cited by Theißen & Sydow as the type of the questionable genus Meliolopsis Saccardo.

No. 26. *Meliola mori* (Cattaneo) Saccardo, Syll. Fung. **1**: 68. 1882.
*Capnodium mori* Cattaneo, Nero **8**: 5.
On Morus.
Citation: 27*.

No. 27. *Meliola mucronata* (Montagne) Saccardo, Syll. **1**: 62. 1882.
*Antennaria scoriadea* Montagne, Fl. Chile **7**: 495. 1860 (not Berkeley).
*Capnodium mucronatum* Montagne, Ann. Sci. Nat. Bot., Sér. 4, **14**: 175. 1860.
Citation: 145*.

No. 28. *Meliola pachytricha* (Link) Saccardo, Syll. Fung. **1**: 71. 1882.
*Myxothecium pachytrichum* Fries, Syst. Mycol. **3**: 232. 1829.
*Sphaeria pachytrichum* Link in herb.

No. 29. *Meliola oligotricha* Montagne, Syll. Cryp. p. 254, no. 909. 1856.
*Dimerosporium oligotrichum* (Montagne) Saccardo, Syll. Fung. **1**: 54. 1882.
*Dimerium oligotrichum* (Montagne) Saccardo & Sydow, Syll. Fung. **17**: 537. 1905.
*Henningsiomyces oligotrichus* (Montagne) v. Höhnel, Sitzber. K. Akad. Wiss. Wien (Vienna), Math.-natur. Kl., Abt. 1, **119**: 460. 1910.
On Olyra.

No. 30. *Meliola palmae* Schweinitz, Syll. Fung. **1**: 80. 1882.
*Capnodium fibrosum* Berkeley, in Hook. Flora Nov. Zealand **2**: 209.
No. 31. *Meliola palmarum* (Kunze) Saccardo, Syll. Fung. **1**: 71. 1882.
*Myxothecium palmarum* Kunze, Weigelt Surinam exs. in Fries Syst. Mycol. **3**: 232. 1829.
*Asterina palmarum* (Kunze) Gaillard, Le Gen. Mel. 118. 1892.
Citations: 1, 317, 3.
This is said by Theißen not to belong to the Microthyriaceae.
No. 32. *Meliola patella* Theißen, Brot. **10**: 27. 1910.
*Trichothyrium dubiosum* (Bom. et R.) Theißen, Annal. Mycol. **10**: 26. 1912.
*Asterina dubiosa* Bomm. & Rouss., Bul. Soc. Bot. Belg. **32**: 157.
*Trichothyrium fimbriatum* Speg.
*Asterella subfurcata* Rehm, Hedw. **40**: 3. 1901.
*Asterina yoshinagai* P. Henn. fa. *ligustri*, Hedw. **41**: 63. 1902.
*Asterina rufo-violascens* P. Henn., Hedw. **43**: 83. 1904.
*Trichopeltopsis reptans* (B. & C.) v. Höhnel, Frag. **7**: 862. 1909.
No. 33. *Meliola penicillata* Léveillé, Ann. Sci. Nat. Bot., Sér. 3, **5**: 266. 1846.
On Lauraceae:
Citation: 235.
v. Höhnel (107) says that this is probably a Septobasidium.
No. 34. *Meliola penzigi* Saccardo, Syll. Fung. **1**: 70. 1882.
*Chaetophoma penzigi* Saccardo, Syll. Fung. **3**: 200. 1884.
*Limacinia penzigi* (Saccardo) Saccardo, Syll. Fung. **14**: 474. 1890.
*Capnodium citri* Penzig.
*Fumago citri* Persoon, Mycol. Eur. **1**: 10.
*Morfea citri* Roze, Bul. Soc. Mycol. France **14**: 1.
*Dematium monophyllum* Bisso, Hist. Nat. 2.
On Citrus.
Citations: 170*, 137, 339, 260, 268.
Specimen: Briosi & Cav., Fungi Par. *135*.
No. 35. *Meliola psilostomae* Thüm., Mycol. Univ. 775 & Flora **60**: 408. 1877.
*Dimerosporium psilostomatis* (Thümen) Saccardo **1**: 54. 1882.
*Dimerium psilostomatis* (Thümen) Saccardo, Syll. Fung. **17**: 537. 1905.
*Dimerium psilostomae* (Thümen) v. Höhnel, Sitzber. K. Akad. Wiss. Wien (Vienna), Math.-natur. Kl. **119**: 406. 1910.
On Psilostoma.
Citations: 45, 108.
Specimen: De Thum., Myc. Univ. *775*.
No. 36. *Meliola pulveracea* Spegazzini, An. Soc. Cient., Argentina, **12**: No. 118. 1881.
*Dimerosporium pulveraceum* (Spegazzini) Spegazzini, Bol. Acad. Nac. Cient., Cordoba, **11**: No. 219. 1889.

*Dimerium pulveraceum* (Spegazzini) Theißen, Bot. Centbl. Beih. **29**: 66. 1912.

Citations: 251, 255.

No. 37. *Meliola quinquespora* de Thümen, Flora **59**: 568. 1876.

On Loganiaceae: Buddleya.

Distribution: Somerset, East South Africa.

Type locality: Somerset, East, South Africa, MacOwan *1251*.

This fungus from the original description, with subglobose perithecia, asci 5-spored, spores simple and hyaline, is clearly not a Meliola. However on specimens bearing this label *Meliola inermis* has been found (de Thuem. 657) and several authors have regarded *M. inermis* and *Meliola quinquespora* as identical 83, 45.

Specimen: De Thüm., Mycol. Univ. *657*.

No. 38. *Meliola sclerochitonis* Kalchbrenner, cited by Doidge.

*Antennaria scoriadea* in Gay Hist. Chile **7**: 472. 1850.

*Asterina fimbriata* Kalchbrenner & Cooke, Grev. **9**: 33. 1880.

On Sclerochiton.

Citations: 45, 317, 127*.

No. 39. *Meliola sordidula* (Léveillé) Berlese & Saccardo, Syll. Fung. Ad. **1—4**: 339. 1886.

*Sphaeria sordidula* Léveillé, Ann. Sc. Nat. 296. 1863.

*Zukalia sordidula* (Léveillé) Saccardo, Syll. Fung. **9**: 432. 1891.

No. 40. *Meliola spartinae* (Ellis & Everhart) Berlese & Voglino, Syll. Ad. **1—4**: 395. 1884.

*Dimerosporium spartinae* Ellis & Everhart, Jour. Mycol. **2**: 102. 1886.

On Spartina.

No. 41. *Meliola tenuis* Berkeley & Curtis in Rav., Fungi Amer. 831 and Grev. **7**: 49. 1878 (Both without description).

On Arundinaria.

Citations: 134, 64.

Specimens: Rav., Fungi Amer. *831*, *330*, Ellis & Everhart, N. Amer. Fungi *3421*, Ellis & Everhart, Fungi Col. *1033*.

No. 42. *Meliola tetracerae* F. Müller & Thümen in Flora, 1878.

*Limacinia tetracerae* Saccardo, Syll. Fung. **14**: 474. 1890.

Citation: 31.

No. 43. *Meliolinopsis theobromae* (v. Faber) Beeli, Bul. Bot. Jard., Bruxelles, **7**: 120. 1920.

*Meliola theobromae* Faber, Arb. K. Biol. Anst., Berlin, **7**: 220. 1909.

On Sterculiaceae: Theobroma.

Type locality: Africa.

The description is so inadequate that no position can be assigned to this fungus. The asci are 8-spored; the spores continuous and hyaline.

No. 44. *Meliola triseptata* Berkeley & Broome in Cke., Grev. 11: 38. 1882.

Type locality: Borneo, Ceylon.

Citation: 28.

No. 45. *Meliola umirayensis* Yates, Philippine Jour. Sci., C. Bot., 13: 370. 1918.

*Chaetosphaeria meliolicola* Sydow.

On Ficus.

Citation: 273.

## Host Index by Families.

Names printed in capitals are those of species of which the type was on a member of the host family under which the record is here made. The other species have been reported as on members of the host family by authors indicated by the bibliographic references in the text, though doubtless the determinations were in many cases inaccurate. In general species reported as of the Meliolineae but now excluded are not here listed, exception, however, is made in the case of *M. amphitricha* since in such cases a true Meliola was undoubtedly present, though the species determination is unreliable.

The family numbers are taken from the "Genera Siphonogamarum" of Dalla Torre and Harms. The Pteridophytes and fungi are added as Nos. 281, 282.

5. On Taxaceae.
   Irenina.
   2101. 5230 . . . . . PODOCARPI No. 3.
   2101. 4230 . . . . . PITYA No. 4.
   3101. 4230, on Rubiaceae . . . glabra No. 66.
   Meliola.
   ½111. 53-3 . . . . . PELTATA No. 1.
   On Podocarpus, Taxus.
6. On Pinaceae.
   Irenina.
   2101. 5230 . . . . . PINICOLA No. 9.
   On Pinus.
19. On Gramineae.
   Meliola.
   3143. 4231, on Araliaceae . . . dichotoma No. 39.
   3141. 5221 . . . . . ARUNDINIS No. 63.
   3141. 4222 . . . . . SACCHARI No. 72.
   3141. 5331 . . . . . BAMBUSAE No. 73.
   3133. 4222 . . . . . IMPERATAE No. 132.
   31½1. 4211 . . . . . STENOTAPHRI No. 171.

| | | |
|---|---|---|
| 3111. 4221, S. obtuse . . . . . | HERCULES | No. 278. |
| 3111. 3223, S. obtuse . . . . . | PANICICOLA | No. 369. |
| 3111. 3223, S. obtuse . . . . . | PANICI | No. 385. |
| 3111. 4232, on Sapindaceae, S. acute . . . . . | parenchymatica | No. 427. |
| 3111. 3222, S. acute . . . . . | CHAETOCHLOAE | No. 484. |
| 3111. 4222. S. acute . . . . . | SUBSTENOSPORA | No. 485. |
| 3111. 4322 . . . . . | amphitricha Exc. | |

On Amphilophium, Andropogon, Anthistiria, Arundinaria, Arundo, Bambusa, Chaetochloa, Chloris, Chusquea, Homolepis, Ichnanthus, Imperata, Isachne, Lasiacis, Olyra, Oplismenus, Panicum, Paspalum, Phragmites, Rottboellia, Saccharum, Spartina, Stenotaphrum, Stipa, Gramineae indet.

20. On Cyperaceae.

Meliola.

| | | |
|---|---|---|
| 3411. 5233 . . . . . | ARGENTINA | No. 30. |
| 3411. 4223 . . . . . | CIRCINANS | No. 31. |
| 3111. 5323, S. acute . . . . . | MAPANIAE | No. 415. |
| 3111. 3223, S. acute . . . . . | INTRICATA | No. 468. |
| 3111. 4233, S. acute . . . . . | ITALICA | No. 482. |
| 3111. 4232, S. acute . . . . . | ULEANA | No. 491. |
| 3111. 423–, on Cannaceae, S. acute | velutina | No. 497. |
| 3111. . . . . | amphitricha Exc. | |

On Baumea, Cladium, Cyperus, Eleocharis, Gahnia, Heleocharis, Lagenocarpus, Mapania, Mariscus, Rhynchospora, Scirpus, Scleria, Vincentia, Cyperaceae indet.

21. On Palmae.

Meliolina.

| | | |
|---|---|---|
| 2110. 3121 . . . . . | IQUITOSENSIS | No. 19. |

Irenina.

| | | |
|---|---|---|
| 3101. 4230, on Rubiaceae . . . | glabra | No. 66. |

Meliola.

| | | |
|---|---|---|
| 3141. 6321 . . . . . | ELAEIS | No. 59. |
| 3141. 4231 . . . . . | FURCATA | No. 65. |
| 31$\frac{1}{3}$1. 4224 . . . . . | FURCATA var. COPERNICIAE | No. 66. |
| 3141. 4211 . . . . . | MORROWII | No. 67. |
| 3141. 3221 . . . . . | MELANOCOCCA | No. 68. |
| 3131. 4222, on Leguminosae . . | denticulata | No. 99. |
| 3131. 4223 . . . . . | PALMICOLA var. COPERNICIAE | No. 133. |
| 31$\frac{1}{3}$1. 4222 . . . . . | AMADELPHA | No. 162. |
| 31$\frac{1}{3}$1. 5332 . . . . . | PALMICOLA | No. 176. |
| 31$\frac{1}{3}$1. 5332 . . . . . | LIVISTONAE | No. 182. |
| 3121. 4221 . . . . . | MAURITIAE | No. 191. |
| 3111 . . . . . | amphitricha Exc. | |

Meliolinopsis.

4111. 3231 . . . . . MANAOSENSIS No. 7.

On Acrista, Bactris, Coccothrinax, Copernicia, Desmoncus, Elaeis, Livistona, Mauritia, Phoenix, Roystonia, Sabal, Serenoa, Thrinax, Genera indet.

22. On Cyclanthaceae.

Meliola.

3131. 4221, on Bignoniaceae . . bidentata No. 116.

On Carludovica.

23. On Araceae.

Irenina.

3101. 3220 . . . . . ARACEARUM No. 56.

Meliola.

3142. 5221 . . . . . PHILODENDRI No. 44.

3133. 3222 . . . . . DIEFFENBACHIAE No. 84.

3121. 4232, on Musaceae . . . musae No. 187.

31½1. 4232, on Apocynaceae . . intermedia No. 201.

3111. 2222, S. obtuse . . . . . ALOCASIAE No. 363.

On Alocasia, Dieffenbachia, Montrichardia, Philodendron, Genera indet.

37. On Stemonaceae.

Meliola.

3131. 5233 . . . . . STEMONAE No. 135.

On Stemona.

38. On Liliaceae.

Meliola.

3141. 4232 . . . . . DRACAENICOLA No. 75.

3133. 4221, on Leguminosae . . pellucida No. 77.

31½1. 5222 . . . . . SMILACIS No. 150.

31½1. 6331 . . . . . DRACAENAE No. 166.

31½1. 533– . . . . . SUBDENTATA No. 170.

3111. 4223, S. acute . . . . . GREGORIANA No. 476.

On Behnia, Dianella, Dioscorea, Dracaena, Smilax.

41. On Velloziaceae.

Irenina.

3101. 4230, on Rubiaceae . . . glabra No. 66.

Meliola.

3111. 4223, S. acute . . . . . INTRICATA var. MAJOR No. 469.

On Barbacenia.

45. On Musaceae.

Meliola.

31½1. 4223 . . . . . HELICONIAE No. 174.

3121. 4232 . . . . . MUSAE No. 186.

On Heliconia, Ravenala, Urania.

46. On Zingiberaceae.

Irenina.

| | | |
|---|---|---|
| 3101. 3210 . . . . . | PARASITICA | No. 34. |
| 3101. 4220 . . . . . | COSTI | No. 55. |

Meliola.

| | | |
|---|---|---|
| 3132. 3224 . . . . . | LONGISTIPITATA | No. 90. |

On Costus, Dimerocostus.

47. On Cannaceae.

Meliola.

| | | |
|---|---|---|
| 3111. 423– . . . . . | VELUTINA | No. 497. |

On Genus indet.

48. On Marantaceae.

Meliola.

| | | |
|---|---|---|
| 3142. 3221 . . . . . | CALATHEAE | No. 46. |
| 31$\frac{3}{4}$1. 2221 . . . . . | MARANTACEARUM | No. 161. |
| 31$\frac{3}{4}$1. 4222 . . . . . | HETEROTRICHA | No. 163. |
| 3111. 6223, S. obtuse . . . . . | HISPIDA | No. 279. |
| 3111. 3221, S. obtuse . . . . . | MARANTAE | No. 324. |
| 3111. 6222 S. obtuse or acute . | CALATHEICOLA | No. 405. |

On Calathea, Bihai, Donax (Thalia), Maranta.

53. On Piperaceae.

Actinodothis.

| | | |
|---|---|---|
| $\frac{3}{4}$101. 3230 . . . . . | PIPERIS | No. 2. |

Amazonia.

| | | |
|---|---|---|
| 3101. 3240, . . . . . | ASTERINOIDES | No. 7. |

Irenopsis.

| | | |
|---|---|---|
| 3401. 4220, on Malvaceae . . . | molleriana | No. 30. |
| 3301. 5220 . . . . . | TORTUOSA | No. 39. |

Irenina.

| | | |
|---|---|---|
| 3101. 3220, on Compositae . . . | cyclopoda | No. 23. |
| 3101. 4230, on Rubiaceae . . . | glabra | No. 66. |
| 3101. 3220 . . . . . | GLABROIDES | No. 72. |
| 3101. 4240, on Loganiaceae . . | obducens | No. 92. |

Meliola.

| | | |
|---|---|---|
| 34$\frac{3}{4}$1. 3121 . . . . . | CONTORTA | No. 21. |
| 3143. 3121 . . . . . | PIPERIS | No. 42. |
| 3141. 5232 . . . . . | PULULAHUENSIS | No. 62. |
| 3141. 4231, on Palmae . . . . | furcata | No. 65. |
| 3131. 3221 . . . . . | GAILLARDIANA | No. 97. |
| 3131. 3221 . . . . . | ZETEKII | No. 98. |
| 3131. 4222 . . . . . | PATOUILLARDI | No. 109. |
| 3111. 3223, S. obtuse . . . . . | PAUCIPES | No. 373. |

3111. 4222, S. acute . . . . . STENOSPORA No. 477.
3111. 3222, S. acute . . . . . PIPERINA No. 489.
On Artanthes, Piper.

57. On Myricaceae.
Irenina.
2101. 4220 . . . . . MANCA No. 6.
On Myrica.

62. On Fagaceae.
Irenopsis.
3401. 4320 . . . . . COSTARICENSIS No. 35.
Leptomeliola.
4101. 3130 . . . . . QUERCINA No. 1.
On Quercus.

63. On Ulmaceae.
Meliola.
3121. 4232 . . . . . CELTICOLA No. 199.
3111. 5234, S. obtuse . . . . . CELTIDIAE No. 366.
3111. 6233 . . . . . CELTIDICOLA No. 365a.
3111. 4232, S. obtuse or acute . CELTIDUM No. 399.
On Celtis.

64. On Moraceae.
Irene.
3201. 5220 . . . . . ECHINUS No. 15.
3201. 4220 . . . . . TONKINENSIS No. 16.
3201. 4220 . . . . . TONKINENSIS var. CECROPIAE No. 17.
Irenina.
3103. 4230, on Rutaceae . . . . obesa No. 15.
3101. 4210 . . . . . RETICULATA No. 44.
3101. 3220, on Piperaceae . . . glabroides No. 72.
Meliola.
3411. 4221 . . . . . MICROTRICHA No. 36.
3131. 5332 . . . . . SOROCEAE No. 130.
3111. 5322, S. obtuse or acute . ARTOCARPIAE No. 393.
3111. 4333, S. acute . . . . . FICIUM No. 422.
3111. 4221, S. acute . . . . . ERIOPHORA No. 453.
On Artocarpus, Cecropia, Coussapoa, Ficus, Olmedia, Sorocea.

65. On Urticaceae.
Irenina.
3101. 4220 . . . . . TREMAE No. 46.
3101. 4230, on Cucurbitaceae . . triloba No. 93.
Meliola.
3111. 3121, S. obtuse or acute . EARLII No. 398.
3111. 3221, S. obtuse or acute . THOMASIANA No. 406.

Leptomeliola.

2111. 3231 . . . . . LEUCOSYKEAE No. 5.

On Elatostema, Leucosyke, Pilea, Pipturus, Trema, Myriocarpa.

66. On Proteaceae.

Irenopsis.

3401. 4230 . . . . . RUPALAE No. 10.

Meliola.

2111. 6341 . . . . . LANOSA No. 14.

On Lomatia, Grevillea, Rupala.

67. On Loranthaceae.

Meliola.

3133. 6322 . . . . . LORANTHI No. 86.

3121. 5222 . . . . . ARCUATA No. 198.

3111. 3211, S. obtuse . . . . . CATUBIGENSIS No. 317.

3111. 4231, S. obtuse . . . . . VISCI No. 384.

3111. 5221, on Santalaceae, S. acute . . . . . polytricha No. 430.

3111 . . . . . amphitricha Exc.

On Loranthus, Viscum.

69. On Santalaceae.

Meliolina.

3100. 6440 . . . . . MEGALOSPORA No. 3.

Meliola.

3142. 4232 . . . . . BIFIDA No. 45.

3113. 4222, on Opiliaceae . . . champereiae No. 224.

3111. 5221, S. obtuse . . . . . EXOCARPIAE No. 290.

3111. 53-- . . . . . POLYTRICHA var. ABYSSINICA No. 291.

3111. 5221 . . . . . POLYTRICHA No. 430.

On Exocarpus, Jodina, Osyris, Osyridicarpos.

71. On Opiliaceae.

Meliola.

3143. 4231 . . . . . AGONANDRAE No. 40.

31½2. 4231 . . . . . OPILIAE No. 145.

3113. 4222 . . . . . CHAMPEREIAE No. 224.

On Agonandra, Champereia, Opilia.

74. On Aristolochiaceae.

Meliola.

3113. 4232, on host ind. . . . . ludibunda No. 220.

3111. 3242, on Labiatae, S. obtuse . ambigua No. 348.

3111. 4223, S. obtuse or acute . ARISTOLOCHIAE No. 392.

3111. 4331, S. acute . . . . . ATRICAPILLA No. 454.

3111. 3221 . . . . . ARISTOLOCHIICOLA No. 455.

On Aristolochia.

77. On Polygonaceae.
Irenopsis.
3401. 3220 . . . . . RECTANGULARIS No. 22.
Meliola.
31½1. 5233 . . . . . PANAMENSIS No. 181.
3112. 3223 . . . . . ANGUSTA No. 247.
3112. 5333, on Lauraceae . . . praetervisa No. 253.
3111. 3221, S. obtuse . . . . . COCCOLOBIS No. 315.
3111 . . . . . amphitricha Exc.
On Coccoloba.
80. On Nyctaginaceae.
Meliola.
2111. 4231, on Myrtaceae . . . pulchella No. 11.
3111. 4221, on Moraceae, S. acute . eriophora No. 453.
On Pisonia.
83. On Phytolaccaceae.
Meliola.
31½1. 3121, on Leguminosae . . perexigua No. 143.
3113. 4223 . . . . . INCOMPTA No. 222.
3111. 4232, S. acute . . . . . MOLFINOI No. 452.
3111 . . . . . amphitricha Exc.
On Achatocarpus, Petiveria, Phytolacca.
91. On Ranunculaceae.
Meliola.
3141. 4231, on Palmae . . . . . furcata No. 65.
3111. 4222, S. obtuse . . . . . KNOWLTONIAE No. 379.
On Clematis, Knowltonia.
94. On Menispermaceae.
Meliola.
31½1. 4232, on Apocynaceae . . intermedia No. 201.
3111. 3223, S. acute . . . . . BANGUIENSIS No. 437.
On Genera indet.
95. On Magnoliaceae.
Irene.
3201. 4230, on Araliaceae . . . araliae No. 13a.
Irenina.
3101. 6420 . . . . . CRUSTACEA No. 96.
Meliola.
3431. 5324 . . . . . DIPLOCHAETA No. 19.
31½1. 5223 . . . . . MAGNOLIAE No. 175.
3111. 6332, S. obtuse . . . . . CORALLINA No. 310.
3111. 6332 . . . . . CORALLINA var. JAVANICA No. 311.
3111 . . . . . amphitricha Exc.
On Drymis, Magnolia, Talauma, Genera indet.

98. On Anonaceae.

Irenina.

| | | |
|---|---|---|
| 3101. 5330, on Boraginaceae . . | longipoda | No. 58. |
| 3101. 4230, on Rubiaceae . . . | glabra | No. 66. |
| 3101. 3220, on Piperaceae . . . | glabroides | No. 72. |

Meliola.

| | | |
|---|---|---|
| 31$\frac{1}{2}$1. 4232 . . . . . | VARICUSPIS | No. 164. |
| 3112. 3231, on Convolvulaceae . | malacotricha | No. 243. |
| 3111. 3221, S. obtuse . . . . . | ANONAE | No. 274. |
| 3111. 3222, S. obtuse . . . . . | POPOWIAE | No. 283. |
| 3111. 3221, S. obtuse . . . . . | ANONACEARUM | No. 299. |
| 3111. 5332, S. obtuse . . . . . | XYLOPIAE | No. 360. |
| 3111. 5223, S. acute . . . . . | BORNEENSIS | No. 461. |

Leptomeliola.

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| 3103. 3130 . . . . . | JAVENSIS | No. 4. |

Meliolinopsis.

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| 2111. 4132 . . . . . | UVARIAE | No. 6. |

On Anona, Guatteria, Popowia, Uvaria, Xylopia, Anonaceae indet.

99. On Myristicaceae.

Meliola.

| | | |
|---|---|---|
| 3121. 4222 . . . . . | UNCINATA | No. 199a. |

On Horsfieldia.

101. On Monimiaceae.

Meliola.

| | | |
|---|---|---|
| 31$\frac{1}{2}$1. 5334 . . . . . | MEGALOCHAETA | No. 153. |
| 3112. 4233 . . . . . | RIGIDA | No. 256. |
| 3111. 3222, S. acute . . . . . | MOLLINEDIAE | No. 471. |

On Kibara, Mollinedia, Xymalos.

102. On Lauraceae.

Amazonia.

| | | |
|---|---|---|
| 3101. 5340 . . . . . | PHILIPPINENSIS | No. 4. |

Meliolina.

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| 3110. 4221 . . . . . | PHILIPPINENSIS | No. 8. |

Irenopsis.

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| 3401. 4220 . . . . . | OCOTEAE | No. 18. |
| 3401. 6340 . . . . . | MARTINIANA | No. 28. |

Irenina.

| | | |
|---|---|---|
| 2101. 4220, on Myricaceae . . . | manca | No. 6. |
| 3101. 3220, on Bignoniaceae . . | arachnoidea | No. 45. |
| 3101. 3220, on Piperaceae . . . | glabroides | No. 72. |
| 3101. 5220 . . . . . | CALVA | No. 76. |
| 3101. 4320 . . . . . | PERSEAE | No. 77. |

Meliola.

| | | |
|---|---|---|
| 3141. 4322 . . . . . | CALOCHAETA | No. 60. |
| 3131. 4221, on Bignoniaceae . . | bidentata | No. 116. |
| 31$\frac{1}{2}$1. 5323 . . . . . | LITSEAE | No. 156. |
| 3121. 5332 . . . . . | UNCITRICHA | No. 194. |
| 3121. 6332 . . . . . | DREPANOCHAETA | No. 195. |
| 3113. 4232 . . . . . | SACCARDOI | No. 228. |
| 3112. 3221, on Verbenaceae . . | cookeana | No. 240. |
| 3112. 4233, on Rutaceae . . . . | peleae | No. 251. |
| 3112. 5333 . . . . . | PRAETERVISA | No. 253. |
| 3111. 6334, S. obtuse . . . . . | MAGNA | No. 335. |
| 3111. 22–1, S. obtuse or acute . | ZIG-ZAG var. DISCRETA | No. 407. |
| 3111. 4222, S. acute . . . . . | ZIGZAG | No. 412. |
| 3111. 3222, S. acute . . . . . | OCOTEICOLA | No. 465. |
| 3111. 5232, S. acute . . . . . | CRYPTOCARYAE | No. 492. |
| 3111. 6323 . . . . . | SETULIFERA | No. 498. |
| 3111. 3222 . . . . . | ACUTISETA | No. 499. |
| 3111 . . . . . | amphitricha Exc. | |

Meliolinopsis.

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|---|---|---|
| 3111. 4221 . . . . . | ANOMALA | No. 10. |

On Cinnamomum, Cryptocarya, Goeppertia, Litsea, Nectandra, Ocotea, Persea, Phoebe, Ullolitsea, Genera indet.

105. On Cruciferae.

Meliola.

| | | |
|---|---|---|
| 3131. 2221, on Bignoniaceae . . | dentifera | No. 103. |

On Arabis.

107. On Capparidaceae.

Irenopsis.

| | | |
|---|---|---|
| 3401. 4220, on Rutaceae . . . . | bosciae | No. 13. |

On Boscia, Maerua.

117. On Saxifragaceae.

Meliola.

| | | |
|---|---|---|
| 3143. 3221 . . . . . | CHORISTYLIS | No. 43a. |
| 3112. 3221 . . . . . | CYLINDROPHORA | No. 267. |
| 3111. 4222, on Piperaceae, S. acute . | stenospora | No. 477. |

On Itea, Choristylis.

118. On Pittosporaceae.

Meliola.

| | | |
|---|---|---|
| 3111. 4232, on Bignoniaceae, S. acute . . . . . | lanceolato-setosa | No. 428. |
| 3111. 5221, on Santalaceae, S. acute . . . . . | polytricha | No. 430. |
| 3111. 4221, S. acute . . . . . | ELMERI | No. 450. |

On Pittosporum.

120. On Cunoniaceae.
Meliola.
3111. 5221, on Santalaceae, S. acute . . . . . polytricha No. 430.
On Cunonia.

123. On Hamamelidaceae.
Irenina.
3101. 3230 . . . . . SCABRA No. 75.
Meliola.
3111. 6342, S. acute . . . . . TORTA No. 486.
On Trichocladus.

126. On Rosaceae.
Irene.
2201. 4220 . . . . . CALOSTROMA No. 7.
Irenina
2101. 4230 . . . . . SANGUINEA No. 5.
2101. 4220, on Myricaceae . . . manca No. 6.
3101. 4230 . . . . . PRUNICOLA No. 63.
Meliola.
3112. 3231 . . . . . GLABRIUSCULA No. 271.
On Acaena, Cliffortia, Geum, Leucosidea, Photinia, Prunus, Pygeum. Rosa, Rubus.

127. On Connaraceae.
Meliola.
3111. 5323, S. obtuse or acute . CONNARIAE No. 403.
3111. 4323, S. obtuse or acute . ROUREAE No. 404.
On Connarus, Rourea.

128. On Leguminosae.
Irene.
2201. 4220, on Rosaceae . . . . calostroma No. 7.
Irenopsis.
3403. 3220 . . . . . INGAE No. 3.
3401. 3220 . . . . . CHAMAECHRISTICOLA No. 21.
3301. 3230, on Piperaceae . . . tortuosa No. 39.
3301. 3220 . . . . . TORULOIDEA No. 44.
Irenina.
3101. 3220 . . . . . MEIBOMIAE No. 35.
3101. 3220, on Labiatae . . . . anastomosans No. 43.
3101. 3220, on Bignoniaceae . . arachnoidea No. 45.
3101. 3220 . . . . . LONCHOCARPI No. 50.
3101. 4220 . . . . . GESUITICA No. 51.
3101. 4230 . . . . . INGAEICOLA No. 52.
3101. 3210 . . . . . CUBITELLA No. 65.

3101. 5220 . . . . . HYMENAEICOLA No. 67.
3101. 5220 . . . . . CUBITORUM No. 86.
3101. 3230 . . . . . PSEUDANASTOMOSANS No. 99.

Meliola.

3142. 3221 . . . . . CHAGRES No. 47.
3141. 3221 . . . . . JURUANA No. 48.
3133. 4221 . . . . . PELLUCIDA No. 77.
3133. 4221 . . . . . BICORNIS No. 78.
3133. 4221 . . . . . BICORNIS var. CALOPOGONII No. 79.
3133. 3222 . . . . . BICORNIS var. AMERIMNI No. 80.
3131. 3223 . . . . . BICORNIS var. TEPHROSIAE No. 81.
3133. 3223 . . . . . BICORNIS var. MILLETTIAE No. 82.
3133. 4221 . . . . . BICORNIS var. ROBINSONII No. 83.
3132. 4231, on Bignoniaceae . . harioti No. 96.
3131. 4222 . . . . . DENTICULATA No. 99.
3131. 3222 . . . . . CRENATISSIMA No. 100.
3131. 3221 . . . . . CRISTATA No. 101.
3131. 3223 . . . . . TRINIDADENSIS No. 110.
3131. 3211 . . . . . DIPHYSAE No. 111.
3131. 4233 . . . . . ZOLLINGERI No. 112.
3131. 3221 . . . . . ZOLLINGERI var. MINOR No. 113.
3131. 3221 . . . . . HETEROCEPHALA No. 136.
3133. 2121 . . . . . MIMOSICOLA No. 137.
3133. 3223 . . . . . TERAMNI No. 138.
3133. 2212 . . . . . SCHIZOLOBII No. 139.
3133. 3212 . . . . . TOUNATEAE No. 140.
3133. 3121 . . . . . PEREXIGUA No. 143.
3133. 4222 . . . . . BICORNIS var. GALACTIAE No. 144.
3131. 3222 . . . . . LONCHOCARPICOLA No. 158.
3131. 3221 . . . . . POLYODONTA No. 167.
3131. 322– . . . . . BICORNIS var. HETEROTRICHA No. 177.
3131. 6332 . . . . . CASTANHA No. 178.
3121. 4232, on Musaceae . . . musae No. 186.
3121. 4232 . . . . . PAZSCHKEANA No. 190.
3113. 4221 . . . . . CONSTIPATA No. 209.
3113. 4231 . . . . . KOAE No. 210.
3113. 4121 . . . . . DESMODII No. 217.
3113. 4222 . . . . . ABRUPTA No. 218.
3113. 4221 . . . . . PITHECOLOBIICOLA No. 219.
3113. 4232, on unknown host . ludibunda No. 220.
3112. 3131 . . . . . CONIGERA No. 237.
3112. 3221 . . . . . AETHIOPS No. 238.
3112. 3231 . . . . . ACACIARUM No. 239.
3112. 322½, on Verbenaceae . . cookeana No. 240.

3112. 3231, on Convolvulaceae . malacotricha No. 243.
3112. 3221 . . . . . CONICA No. 245.
3112. 3221 . . . . . ANDIRAE No. 260.
3112. 3221 . . . . . ANDIRAE var. PUTTEMANSII No. 261.
3112. 3221, on Saxifragaceae . . cylindrophora No. 267.
3112. 42-3 . . . . . INOCARPI No. 268.
3111. 3221, on Convolvulaceae, S. obtuse . . . . . clavulata No. 276.
3111. 3222, S. obtuse . . . . . MEIBOMIAE No. 284.
3111. 3221, S. obtuse . . . . . PITHECOLOBII No. 285.
3111. 4231, S. sbtuse . . . . . GLEDITSCHIAE No. 339.
3111. 3221, S. obtuse . . . . . HOLOCALICIS No. 340.
3111. 4222, S. obtuse . . . . . ERYTHRINAE No. 341.
3111. 3211, S. obtuse . . . . . CALOPOGONII No. 351.
3111. 3111, S. obtuse . . . . . SUBTORTUOSA No. 374.
3111. 3221, S. obtuse . . . . . CHAMAECHRISTAE No. 378.
3111. 4232, S. obtuse . . . . . TAMARINDI No. 383.
3111. 3223, S. acute . . . . . BANOSENSIS No. 416.
3111. 3221, S. acute . . . . . GLIRICIDIAE No. 417.
3111. 3221, S. acute . . . . . PTEROCARPIAE No. 418.
3111. 4232, on Sapindaceae, S. acute . . . . . parenchymatica No. 427.
3111. 5221, on Santalaceae, S. acute . . . . . polytricha No. 430.
3111. 3222, S. acute . . . . . BATAANENSIS No. 464.
3111. 5222, S. acute . . . . . RUDOLPHIAE No. 493.
3111 . . . . . amphitricha Exc.

Meliolinopsis.

3122. 3221 . . . . . CURVISETA No. 9.

On Acacia, Amerimnum Andira, Baphia, Bauhinia, Berlinia, Bradburia, Caesalpinia, Calopogonium, Cassia, Centrosema, Chamaecrista, Clitoria, Collaea, Dalbergia, Derris, Desmodium (Meibomia), Dimorphandra, Dioclea, Diphysa, Dolicholus, Entada, Erythrina, Galactia, Gleditschia, Gliricidia, Holocalyx, Hymenaea, Indigofera, Inga, Inocarpus, Lonchocarpus, Millettia, Mimosa, Ormocarpum, Pentaclethra, Phanera, Phaseolus, Pithecolobium, Psoralea, Pterocarpus, Pueraria, Rudolphia, Schizolobium, Sclerolobium, Tamarindus, Tephrosia, Terammus, Tounatea, Wenderothia, Zollernia, Genera indet.

135. On Zygophyllaceae.

Meliola.

3111. 5212, on Rubiaceae . . . woodiana No. 371.

Irene.

3201. 4230, on Araliaceae . . . araliae No. 13a.

On Guaiacum.

137. On Rutaceae.

Amazonia.

3133. 3232 . . . . . BUTLERI No. 9.

Irene.

3201. 4230, on Araliaceae . . . araliae No. 13a.

Irenopsis.

3401. 4220 . . . . . BOSCIAE No. 13.

3401. 4220, on Malvaceae . . . molleriana No. 30.

Irenina.

3103. 4230 . . . . . OBESA No. 15.

3101. 4230 . . . . . FAGARICOLA No. 53.

3101. 5330, on unknown host . tomentosa No. 68.

3101. 3220, on Piperaceae . . . glabroides No. 72.

3101. 5330 . . . . . TRACHYLAENA No. 85.

Meliola.

2111. 4233, on unknown host . guaranitica No. 13.

3411. 5334 . . . . . JUDDIANA No. 32.

3141. 4231 . . . . . PATENS No. 55.

3141. 5222 . . . . . TENELLA No. 56.

3141. 4231, on Palmae . . . . furcata No. 65.

3141. 5331 . . . . . BAMBUSAE var. ATALANTIAE No. 74.

3131. 4232 . . . . . GALIPEAE No. 119.

3131. 5221 . . . . . EVODIAE No. 120.

3131. 4223 . . . . . CITRICOLA No. 121.

3123. 4232 . . . . . ATERRIMA No. 185.

3113. 3223 . . . . . CADIGENSIS No. 204.

3113. 5332 . . . . . MONENSIS No. 211.

3113. 4232, on unknown host . ludibunda No. 220.

3112. 4233 . . . . . PELEAE No. 251.

3112. 5332 . . . . . TODDALIAE No. 258.

3111. 3221, S. obtuse . . . . . MONNIERIAE No. 295.

3111. 4333, S. obtuse . . . . . MACROPODA No. 296.

3111. 5332, S. obtuse . . . . . THUEMENIANA No. 375.

3111. 5224, S. acute . . . . . PILOCARPI No. 460.

3111. . . . . amphitricha Exc.

On Amyris, Atalantia, Aurantiaceae (?), Balfourodendron, Barosma, Casimiroa, Citrus, Evodia, Fagara, Galipea, Glycosmis, Helietta, Lunasia, Monnieria, Murraya, Pelea, Pilocarpus, Toddalia, Zanthoxylon, Rutaceae indet.

138. On Simarubaceae.

Irenina.

3101. 3220, on Piperaceae . . . glabroides No. 72

Meliola.

3141. 6332, on unknown host . balansae No. 202.

3112. 4222, on Celastraceae . . falcatiseta No. 270.
3111. 4232, S. acute . FLACATISETA var. ALTERNIPES No. 449.
On Castela, Picramnia, Simaruba, Simaba.

139. On Burseraceae.
Irenina.
3101. 3220, on Piperaceae . . . glabroides No. 72.
Meliola.
3131. 4223, on Leguminosae . . evanida No. 114.
3131. 5322 . . . . . PROTII No. 128.
3131. 4222 . . . . . BURSERACEARUM No. 129.
3111. 4222, S. obtuse or acute . CANARII No. 401.
3111, on Malvaceae . . . . . amphitricha Exc.
On Canarium, Hedwigia, Icica, Protium, Tetragastris.

140. On Meliaceae.
Irene.
3201. 4230, on Araliaceae . . . araliae No. 13a.
Irenina.
3103. 4220, on Sapindaceae . . wrightii No. 12.
3103. 4230, on Rutaceae . . . . obesa No. 15.
3102. 5340, on unknown host . laevis No. 18.
3101. 2220 . . . . . SANDORICI No. 54.
3101. 3220, on Piperaceae . . . glabroides No. 72.
Meliola.
31½1. 5332 . . . . . BANAHAENSIS No. 173.
3113. 4222 . . . . . ATRO-VELUTINA No. 231.
3113. 3223 . . . . . PARVULA No. 232.
3112. 3231, on Convolvulaceae . malacotricha No. 243.
3112. 3222 . . . . . OPPOSITA No. 254.
3111. 5333, S. obtuse . . . . . PLATYSPERMA No. 330.
3111. 4222, S. obtuse . . . . . OBVALLATA No. 331.
3111. 4222, S. obtuse . . . . . LEPTOCHAETA No. 332.
3111. 4222, on Lauraceae, S. acute . zig-zag No. 412.
3111. 3121 . . . . . GUAREICOLA No. 434.
3111. 4223, S. acute . . . . . TRICHILIICOLA No. 435.
3111. 4223, S. acute . . . . . GUAREAE No. 458.
3111. 4233, S. acute . . . . . PARASITICA No. 481.
3111. 5232. S. acute . . . . . SINUOSA No. 483.
3111. . . . . amphitricha Exc.
On Aglaia, Amoora, Cabralea, Dysoxylum, Guarea, Sandoricum, Trichilia, Vavaea, Genera indet.

141. On Malpighiaceae.
Irenopsis.
3401. 3220, on Polygonaceae . . rectangularis No. 22.
3301. 5220, on Piperaceae . . . tortuosa No. 39.

Irenina.
3101. 4230, on Rubiaceae . . . glabra No. 66.
Meliola.
$\frac{3}{3}$111. 4231 . . . . . STUHLMANNIANA No. 16.
3412. 3222 . . . . . BYRSONIMINA No. 23.
3133. 6222 . . . . . CRENATA No. 87.
3131. 3222 . . . . . CRENATO-FURCATA No. 107.
3131. 4221, on Bignoniaceae . . bidentata No. 116.
31$\frac{1}{3}$1. 5221 . . . . . XENODERMA No. 168.
3111. 4223, S. obtuse . . . . . BYRSONIMICOLA No. 308.
3111. 5223, S. obtuse or acute . BYRSONIMAE No. 400.
3111. 3221, on Bignoniaceae, S. acute . . . . . brasiliensis No. 414.
On Acridocarpus, Banisteria, Bunchosia, Byrsonima, Stigmatophyllon, Malpighia, Malpighiaceae indet.

142. On Trigoniaceae.
Irenopsis.
3401. 4220, on Malvaceae . . . molleriana No. 30
On Trigonia.

145. On Polygalaceae.
Irenina.
3101. 3220 . . . . . MONNINAE No. 24.
On Monnina.

147. On Euphorbiaceae.
Amazonia.
3102. 3220 . . . . . ACALYPHAE No. 3.
3101. 3240, on Piperaceae . . . asterinoides No. 7
Irene.
3201. 4220 . . . . . LARVIFORMIS No. 11.
3201. 5220 . . . . . LARVIFORMIS var. ARECIBENSIS No. 12.
3201. 5330 . . . . . CORNU-CAPRAE No. 14.
Irenopsis.
3301. 3210 . . . . . CROTONIS No. 42.
Irenina.
3103. 3220 . . . . . DALECHAMPIAE No. 11.
3101. 3210 . . . . . ALCHORNEAE No. 26.
3101. 4230 . . . . . VERRUCOSA No. 47.
3101. 4230, on Rubiaceae . . . glabra No. 66.
3101. 3220 . . . . . SUBAPODA No. 87.
Meliola.
2113. 3222 . . . . . INSIGNIS No. 3.
3141. 4221 . . . . . CROTONICOLA No. 71.
31$\frac{3}{3}$1. 3122 . . . . . ALCHORNEAE No. 152.
3121. 5222 . . . . . CLUYTIAE No. 193a.

3114. 4232, on Apocynaceae . . intermedia No. 201.
3113. 5232 . . . . . CLADOPHAGA No. 205.
3113. 4221, on Leguminosae . . constipata No. 209.
3113. 3221 . . . . . MANIHOTICOLA No. 212.
3112. 3231, on Convolvulaceae . malacotricha No. 243.
3112. 3221 . . . . . BRACHYPODA No. 255.
3112. 3223 . . . . . LUZONENSIS No. 264.
3111. 3221, S. obtuse . . . . . RAMOSII No. 293.
3111. 3221 . . . . . LONGISPORA' No. 294.
3111. 3221, S. obtuse . . . . . GYMNANTHICOLA No. 328.
3111. 3211, S. obtuse . GYMNANTHICOLA var. MANIHOT. No. 329.
3111. 4232, S. obtuse . . . . . COLLIGUAJAE No. 338.
3111. 3242, on Labiatae, S. obtuse . ambigua No. 348.
3111. 4212, S. obtuse . . . . . EUPHORBIAE No. 362.
3111. 4223, S. obtuse . . . . . SAUROPICOLA No. 386.
3111. 4231, S. obtuse . . . . . HEVEAE No. 391.
3111. 3221, S. acute . . . . . JATROPHAE No. 441.
3111. 3221, S. acute . . . . . MORBOSA No. 442.
3111. 5222, on Anacardiaceae, S. acute . . . . . irradians No. 466.
3111. 5322, S. acute . . . . . MACARANGAE No. 487.
3111. 4222, S. acute . . . . . HIPPOMANEAE No. 488.
3111. 3222, S. acute . . . . . EXCOECARIAE No. 490.

On Acalypha, Alchornea, Antidesma, Claoxylon, Colliguaja, Croton, Dalechampia, Drypetes, Euphorbia, Excoecaria, Gymnanthes, Hancea, Hevea, Hippomane, Homonoia, Jatropha, Macaranga, Mallotus, Manihot, Sauropus, Sebastiana, Genera indet.

153. On Anacardiaceae.

Amazonia
3103. 4220 . . . . . ANACARDIACEARUM No. 2.

Irenopsis.
3401. 3220 . . . . . KENTANIENSIS No. 14.
3401. 4330, on Tiliaceae . . . . coronata No. 15.
3301. 4220 . . . . . COMOCLADIAE No. 41.

Meliola.
3141. 3221 . . . . . TAPIRIRAE No. 64.
3141. 4231, on Palmae . . . furcata No. 65.
3131. 3223, on unknown host . heterodonta No. 76.
3133. 4221 . . . . . WEIGELTII No. 85.
3131. 4221 . . . . . ANACARDII No. 104.
3131. 3221 . . . . . GENICULATA No. 105.
3131. 4231 . . . . . GENICULATA var. MACROSPORA No. 106.
3131. 4221, on Bignoniaceae . . bidentata No. 116.
3131. 4222 . . . . . OPACA No. 124.

3131. 4224 . . . . . MULTISETA No. 125.
31$\frac{1}{3}$1. 3221 . . . . . TAPIRIRICOLA No. 151.
31$\frac{1}{3}$1. 5232 . . . . . MANGIFERAE No. 165.
3121. 4232 . . . . . HAMATA No. 197.
31$\frac{1}{2}$1. 4232, on Apocynaceae . . intermedia No. 201.
3113. 4232, on unknown host . ludibunda No. 220.
3113. 4233 . . . . . PACHYCHAETA No. 234.
3112. 3221 . . . . . COOKEANA f. DUVAUAE No. 241.
3112. 3231, on Convolvulaceae . malacotricha No. 243.
3112. 3221 . . . . . NICARAGUENSIS No. 265.
3112. 4222, on Celastraceae . . falcatiseta No. 270.
3111. 3232, S. obtuse . . . . . LANIGERA No. 336.
3111. 4233, S. obtuse . . . . . CHILENSIS No. 336a.
3111. 4223, S. obtuse . . . . . SEMECARPI No. 337.
3111. 6333, S. obtuse . . . . . HOLIGARNAE No. 382.
3111. 4221, S. obtuse or acute . . . . . POLYTRICHA var. FLEXUOSISETA No. 408.
3111. 3221, on Bignoniaceae, S. acute . . . . . brasiliensis No. 414.
3111. 5221, on Santalaceae, S. acute polytricha No. 430.
3111. 5221, S. acute . POLYTRICHA var. ANACARDIACEAE No. 431.
3111. 5222, S. acute . . . . . IRRADIANS No. 466.
3111. 4231, S. acute . . . . . LOXOSTYLIDIS No. 467.
3111. 4232, S. acute . . . . . RHOIS No. 494.
3111 . . . . . amphitricha Exc.

On Anacardium, Astronium, Buchanania, Comocladia, Dodonaea, Dracontomelon, Duvaua, Harpophyllum, Holigarna, Lithraea, Loxostylis, Mangifera, Mauria, Odina, Rhus, Schinus, Sebastania, Semecarpus, Spondias, Tapirira, Terebinthe. Anacardiaceae indet.

157. On Aquifoliaceae.

Irene.

3201. 4230 on Araliaceae . . . araliae No. 13a.

Irenopsis.

3401. 4220 . . . . . MARICAENSIS No. 6.

Irenina.

3101. 6330 . . . . . LAGERHEIMII No. 83.

Meliola.

21--. 632- . . . . . ILICIS No. 15.
3121. 4221, on Myrtaceae . . . densa No. 192.
3111. 4321, S. obtuse . . . . . YERBAE No. 350.

On Ilex.

158. On Celastraceae.

Actinodothis.

2101. 4240 . . . . . PERROTTETIAE No. 1.

Amazonia.

2101. 4220 . . . . . PERROTTETIAE No. 1.

Irene.

2201. 6330 . . . . . SPECIOSA No. 5.

2201. 4240 . . . . . GLORIOSA No. 6.

Irenopsis.

3401. 4230 . . . . . COMPACTA No. 11.

Irenina.

3102. 5340, on unknown host . . laevis No. 18.

3101. 5340 . . . . . DITRICHA No. 88.

3101. 3220 . . . . . GYMNOSPORIAE No. 89.

Meliola.

2111. 5232 . . . . . EVANSII No. 8.

3112. 4222 . . . . . FALCATISETA No. 270.

3111 . . . . . amphitricha Exc.

On Celastrus, Crossopetalum, Elaeodendron, Gymnosporia, Maytenus, Moya, Mystroxylon, Perrottetia, Pleurostylia.

159. On Hippocrateaceae.

Meliola.

2111. 4232, on Cornaceae . . . ganglifera No. 10.

2111. 4221, on Staphyleaceae . . oligomera No. 12.

2111. 4233, on unknown host . . guaranitica No. 13.

3111. 4221, S. acute . . . . . MONTAGNEI No. 433.

3111 . . . . . amphitricha Exc.

On Hippocratea, Salacia.

161. On Staphyleaceae.

Irenopsis.

2401. 6340, on unknown host . . guignardi No. 1.

2401. 5230 . . . . . PORTORICENSIS No. 2.

Meliola.

2111. 4221 . . . . . OLIGOMERA No. 12.

On Turpinia.

162. On Icacinaceae.

Irenopsis.

3401. 5230 . . . . . COMATA No. 26.

Meliola.

2111. 6332 . . . . . VILLARESIAE No. 5.

2111. 5232 . . . . . CAMPYLOTRICHA No. 6.

3121. 4242 . . . . . CLADOPHILA No. 184.

3111. 4233, S. acute . . . . . VILLARESIICOLA No. 448.

On Apodytes, Pyrenacantha, Villaresia.

165. On Sapindaceae.

Irene.

3201. 4230, on Araliaceae . . . araliae No. 13a.

Irenopsis.
3401. 3220 . . . . . CUPANIAE No. 8.
3401. 3220 . . . . . ARANEOSA No. 9.
3401. 4330, on Tiliaceae . . . . coronata No. 15.
Irenina.
3103. 4220 . . . . . WRIGHTII No. 12.
3103. 4230, on Rutaceae . . . . obesa No. 15.
3102. 3220 . . . . . BONPLANDI No. 16.
3101. 4230, on Rubiaceae . . . glabra No. 66.
3101. 3220, on Piperaceae . . . glabroides No. 72.
Meliola.
2111. 4233, un unknown host . . guaranitica No. 13.
3413. 4222 . . . . . ACROTRICHA No. 22.
3133. 4221, on Leguminosae . . bicornis No. 78.
3133. 4222, on Anacardiaceae . . weigelti No. 85.
3133. 3322 . . . . . SAPINDACEARUM No. 88.
3132. 3221 . . . . . SERJANIICOLA No. 91.
3132. 4221 . . . . . ODONTOCEPHALA No. 92.
3131. 4222, on Piperaceae . . . patouillardi No. 109.
3131. 3222 . . . . . PAULLINIAE var. DENTATA No. 118.
3131. 4223 . . . . . SAPINDI No. 127.
31⅓3. 4221 . . . . . VARIASETA No. 141.
31⅓3. 2223 . . . . . NEPHELII No. 142.
31⅓2. 3222 . . . . . CAPENSIS No. 146.
31⅓1. 3221 . . . . . COMMIXTA No. 169.
21⅓1. 4222 . . . . . FURCILLATA No. 172.
3113. 4232 . . . . . LYONI No. 203.
3113. 3222 . . . . . THOUINIAE No. 233.
3112. 3221 . . . . . COOKEANA, var. MAJOR No. 242.
3112. 3221 . . . . . MATAYBAE No. 246.
3112. 5333, on Lauraceae . . . praetervisa No. 253.
3112. 3221, on Saxifragaceae . . cylindrophora No. 267.
3111. 3221, on Euphorbiaceae, S. obtuse . . . . . longispora No. 294.
3111. 3211, S. obtuse . . . . . INTEGRISETA No. 345.
3111. 3221, S. obtuse . . INTEGRISETA var. STEVENSII No. 346.
3111. 3221, S. obtuse . INTEGRISETA var. LEPISANTHEA No. 347.
3111. 3242, on Labiatae, S. obtuse ambigua No. 348.
3111. 3223, S. obtuse . . . . . COLLADOI No. 359.
3111. 3223, S. obtuse . . . . . EQUADORENSIS No. 377.
3111. 3221, on Bignoniaceae, S. acute . . . . . brasiliensis No. 414.
3111. 4232, S. acute . . . . . PARENCHYMATICA No. 427.
3111. 3222, S. acute . . . . . PAULLINIAE No. 429.

3111.5221, on Santalaceae, S.acute polytricha No. 430.
3111. 4223, S. acute . . . . . SERJANIAE No. 472.
3111. 4223, S. acute . . . . SERJANIAE var. DENTATA No. 473.
3111. 2222, S. acute . . . . . OTOPHORAE No. 474.
3111. 4221, S. acute . . . . . SYDOWIANA No. 475.
3111. . . . . amphitricha Exc.

On Allophylus (Schmidelia), Arytera, Cupania, Dodonaea, Guioa, Harpullia, Hippobromus, Hypelate, Lepisanthes, Matayba, Melicocca, Nephelium, Otophora, Paullinia, Sapindus, Serjania, Sideroxylon, Thouinia, Trigonachras, Urvillea, Genera indet.

169. On Rhamnaceae.

Irene.

2201. 5330 . . . . . SPLENDENS No. 4.

Irenopsis.

3401. 3220, on Cucurbitaceae . . aciculosa No. 32.
3$\frac{3}{4}$01. 3220 . . . . . TENUISSIMA No. 36.

Irenina.

3101. 3220 . . . . . COLUBRINAE No. 22.

Meliola.

3131. 4221, on Bignoniaceae . . bidentata No. 116.
31$\frac{1}{4}$1. 2222 . . . . . RHAMNICOLA No. 154.
3113. 3222, on Sapindaceae . . thouiniae No. 233.
3112. 3241 . . . . . SCUTIAE No. 250.

On Alphitonia, Colubrina, Gouania, Krugiodendron, Scutia, Genera ind.

170. On Vitaceae.

Meliola.

3141. 4331, on Compositae . . . mikaniae No. 52.
3141. 3221 . . . . . MERRILLII No. 61.
3113. 4222 . . . . . BAKERI No. 229.
3111. 3211 . . . . . RIZALENSIS var. PANAMENSIS No. 320.
3111.4232, on Sapindaceae, S.acute parenchymatica No. 427.

On Cissus, Rhoicissus, Tetrastigma, Vitis.

171. On Elaeocarpaceae.

Irenina.

3102. 4230 . . . . . AMOENA No. 17.

Meliola.

3112. 4232 . . . . . ELAEOCARPEAE No. 269.

On Elaeocarpus, Sloanea.

174. On Tiliaceae.

Irenopsis.

3401. 4330 . . . . . CORONATA No. 15.
3401. 4220 . . . . . CORONATA var. TRIUMFETTAE No. 16.
3301. 4220 . . . . . CORONATA var. VANDERYSTII No. 17.

3401. 3220, on Cucurbitaceae . aciculosa No. 32.
3301. 5230, on Piperaceae . . . tortuosa No. 39.

Irenina.

3101. 3220, on Bignoniaceae . . arachnoidea No. 45.

On Triumfetta, Luehea (Luhea).

175. On Malvaceae.

Irenopsis.

3401. 4220, on Tiliaceae . . . . coronata var. triumfettae No. 16.
3401. 3220 . . . . . BASTARDIOPSIDIS No. 29.
3401. 4220 . . . . . MOLLERIANA No. 30.
3401. 3220 . . . . . MOLLERIANA var. SIDICOLA No. 31.

Meliola.

3411. 2121 . . . . . SIDAE No. 29.
3111. 2121, on Labiatae, S. obtuse microspora No. 292.
3111. 3242, on Labiatae, S. obtuse ambigua No. 348.
3111 . . . . . amphitricha Exc.

On Abutilon, Bastardiopsis, Hibiscus, Malache, Sida, Genera indet.

178. On Sterculiaceae.

Irenopsis.

3401. 4220, on Tiliaceae . . . . coronata var. triumfettae No. 16.
3301. 5230 . . . . . GUIANENSIS No. 43.

Meliola.

3111. 4332, S. obtuse . . . . . PTEROSPERMI No. 380.

Meliolinopsis.

31--. 534- . . . . . TETRADENIAE No. 3.

On Helicteres, Tetradenia, Theobroma, Pterospermum.

180. On Dilleniaceae.

Meliolina.

2410. 4233 . . . . . MALACENSIS No. 13.

Irene.

3201. 5220, on Compositae . . . sororcula No. 8.
3201. 4320 . . . . . PAPILLIFERA No. 22.

Irenina.

3101. 3220 . . . . . OBSCURA No. 36.
3101. 3220 . . . . . LONGIPEDICELLATA No. 82.

On Acrotrema, Doliocarpus, Saurauia, Wormia, Dilleneae indet.

182. On Ochnaceae.

Irenina.

3101. 3220, on Piperaceae . . . glabroides No. 72.

Meliola.

3111. 3222, S. acute . . . . . OCHNAE No. 447.

On Ochna, Sauvagesia.

184. On Marcgraviaceae.
Irenopsis.
3401. 4330 . . . . . RAMONENSIS No. 23.
Irenina.
3101. 3210 . . . . . MARCGRAVIAE No. 25.
On Marcgravia.
186. On Theaceae.
Meliola.
3141. 4323 . . . . . THEACEARUM No. 159.
On Gordonia, Schima.
187. On Guttiferae.
Amazonia.
3111. 6223 . . . . . CLUSIAE No. 10.
Irene
3201. 4230 . . . . . CALOPHYLLI No. 23.
Irenina.
3101. 3220, on Piperaceae . . . glabroides No. 72.
3101. 4220 . . . . . MANGOSTANA No. 49.
Meliola.
3111. 5233, S. obtuse or acute . GARCINIAE No. 396.
3111. 3222, on Sapindaceae S. acute . . . . . paulliniae No. 429.
3111. 423–, on Cannaceae . . . velutina No. 497.
On Garcinia, Calophyllum, Clusia, Mammea, Rheedia, Symphonia, Vismia.
188. On Dipterocarpaceae.
Meliola.
3411. 3222 . . . . . HOPEAE No. 27.
On Hopea.
197. On Canellaceae.
Meliola.
3113. 3222, on Sapindaceae . . thouiniae No. 233.
On Winterana.
198. On Violaceae.
Irenopsis.
3401. 5230 . . . . . MACROCHAETA No. 34.
Irenina.
3101. 4320 . . . . . RINOREAE No. 94.
On Alsodeia, Rinorea.
199. On Flacourtiaceae.
Irene.
2203. 4220 . . . . . NATALENSIS No. 1.
2203. 4220 . . . . . NATALENSIS var. LAXA No. 2.
2203. 4320 . . . . . NATALENSIS var. CONFERTA No. 3.

Irenopsis.
3301. 3230 . . . . . CLAVICULATA No. 40.
Meliola.
2112. 5324 . . . . . TONDUZI No. 4.
2111. 5232, on Celastraceae . . evansii No. 8.
3133. 3322, on Sapindaceae . . sapindacearum No. 88.
3111. 4221, S. obtuse . . . . . BANARAE No. 318.
3111. 3242, on Labiatae, S. obtuse . ambigua No. 348.
3111. 3221, S. obtuse . . . . . XYLOSMAE No. 357.
3111. 3222, on Sapindaceae S. acute paulliniae No. 429.
3111 . . . . . amphitricha Exc.
On Banara, Barteria, Casearia, Dovyalis, Myroxylon, Oncoba, Scolopia, Xylosma.

203. On Passifloraceae.
Irenopsis.
3401. 4220, on Malvaceae . . . molleriana No. 30.
Meliola.
3111. 5321 . . . . . ARISTATA No. 390.
3111. 4242 . . . . . POLYTRICHA var. PAROPSIAE No. 432.
On Paropsia, Passiflora.

205. On Caricaceae.
Irenopsis.
3401. 4220, on Malvaceae . . . molleriana No. 30.
On Carica.

210. On Cactaceae.
Irene.
3201. 4230, on Araliaceae . . . araliae No. 13a.
On Cactus.

214. On Thymelaeaceae.
Amazonia.
3101. 3240, on Piperaceae . . . asterinoides No. 7.
Irenina.
3101. 4220 . . . . . AIBONITENSIS No. 21.
On Daphnopsis, Wikstroemia.

216. On Lythraceae.
Meliolina.
4110. 6221 . . . . QUERCINOPSIS var. MEGALOSPORA No. 7.
Meliola.
3111 . . . . . amphitricha, Exc.
On Lythraea.

219. On Lecythidacae.
Meliola.
3113. 4232 . . . . . INDICA No. 226.
3113. 4233 . . . . . INDICA var. CAREYAE No. 227.

On Barringtonia, Careya.

220. On Rhizophoraceae.

Meliola.

3113. 4334 . . . . . BRUGUIERAE No. 215.

On Bruguiera.

2101. 4230 . . . . . PEDDIEAE addenda p. 383.

221. On Combretaceae.

Irenina.

3101. 3220 . . . . . LAGUNCULARIAE No. 57.

3101. 4220 . . . . . COMBRETI No. 81.

Meliola.

31$\frac{1}{2}$1. 4232, on Apocynaceae . . intermedia No. 201.

3111. 4222, S. obtuse . . . . . NIGRA No. 376.

3111. 4222, S. acute . . . . . PELLICULOSA No. 459.

3111 . . . . . amphitricha Exc.

On Combretum, Laguncularia, Lumnitzera, Terminalia.

222. On Myrtaceae.

Amazonia.

3101. 4220 . . . . . OHIANUS No. 6.

3101. 3240, on Piperaceae . . . asterinoides No. 7.

Meliolina.

2440. 5242 . . . . . OCTOSPORA No. 10.

2440. 5242 . . . . . SYDOWIANA No. 11.

2440. 6242 . . . . . MOLLIS No. 12.

2140. 5-32 . . . . . RADIANS No. 14.

2140. 5242 . . . . . PULCHERRIMA No. 15.

2140. 5342 . . . . . ARBORESCENS No. 16.

2140. 6342, on Myrsinaceae . . cladotricha No. 17.

2110. 5221 . . . . . HAPLOCHAETA No. 18.

Irenina.

3103. 5230 . . . . . VALDIVIENSIS No. 10.

3101. 5320 . . . . . ATRA No. 90.

3101. 4230 . . . . . ZEYHERI No. 91.

3101. 4220 . . . . . ATRICHA No. 100.

Meliola.

2111. 4231 . . . . . PULCHELLA No. 11.

3$\frac{1}{2}$1-. 3211 . . . . . HORRIDA No. 37.

3131. 3222 . . . . . HELLERI No. 126.

3121. 4221 . . . . . DENSA No. 192.

3113. 5223 . . . . . AMOMICOLA No. 216.

3113. 2222, on unknown host . rehmii No. 223.

3112. 4224 . . . . . EUGENIICOLA No. 266.

3111. 3222, S. obtuse . . . . . OLECRANONIS No. 300.

3111. 5331, S. obtuse . . . . . EUGENIAE No. 322.

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| 3111. 3232, on Anacardiaceae, S. obtuse | lanigera | No. 336. |
| 3111. 4222, S. obtuse | HAWAIIENSIS | No. 364. |
| 3111. 4221, S. obtuse | LAXA | No. 372. |
| 3111. 4222, S. acute | PSIDII | No. 409. |
| 3111. 3221, on Bignoniaceae, S. acute | brasiliensis | No. 414. |
| 3111 | amphitricha Exc. | |

On Amomis, Eucalyptus, Eugenia, Melaleuca, Metrosideros, Myrcia, Psidium, Syzygium, Myrtaceae indet.

223. On Melastomataceae.

Irenopsis.

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| 3401. 3220 | MICONIEICOLA | No. 19. |
| 3401. 4330 | MICONIAE | No. 20. |
| 3401. 3220 | CONOSTEGIAE | No. 38. |

Irenina.

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| 3101. 4220 | SHROPSHIRIANA | No. 27. |
| 3101. 3220, on Bignoniaceae | arachnoidea | No. 45. |
| 3101. 4320 | HEUDELOTII | No. 59. |
| 3101. 3220 | MELASTOMACEARUM | No. 60. |
| 3101. 3220 | CLIDEMIAE | No. 71. |

Meliola.

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| 3133. 4222, on Anacardiaceae | weigeltii | No. 85. |
| 3111. 4233 | AFFINIS | No. 157. |
| 3111. 5333, S. obtuse | MEMECYLI | No. 281. |
| 3111. 3242, on Labiatae, S. obtuse | ambigua | No. 348. |
| 3111. 3222, S. obtuse | OLIGOPODA | No. 387. |
| 3111. 4222, S. obtuse | BRACHYCERA | No. 388. |
| 3111. 5221, on Santalaceae, S. acute | polytricha | No. 430. |
| 3111 | amphitricha Exc. | |

On Arthrostemma, Clidemia, Conostegia, Leandra, Memecylon, Miconia, Melastomataceae indet.

227. On Araliaceae.

Irene.

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| 3201. 4230 | ARALIAE | No. 13a. |

Irenina.

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| 3101. 3220, on Piperaceae | glabroides | No. 72. |
| 3101. 6240 | CHEIRODENDRONIS | No. 84. |
| 3101. 5340 | MOROTOTONI | No. 97. |

Meliola.

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| 3441. 5321 | HETEROSETA | No. 17. |
| 3412. 5332 | PECTINATA | No. 24. |
| 3143. 4231 | DICHOTOMA | No. 39. |

3141. 4221 . . . . . LEPTOCLADA No. 53.
3141. 5231 . . . . . LEPTIDEA No. 54.
3141. 4221 . . . . . BORLAGIODENDRIAE No. 58.
3141. 4231, on Palmae . . . . furcata No. 65.
$31\frac{1}{3}1$. 3221 . . . . . KUSANOI No. 179.
3113. 4233 . . . . . DIDYMOPANACIS No. 236.
3111. 4221, S. obtuse . . . . . IROSINENSIS No. 333.
3111 . . . . . amphitricha Exc.

On Aralia, Boerlagiodendron, Cheirodendron, Cussonia, Dendropanax, Didymopanax, Hedera, Paratropia, Schefflera.

229. On Cornaceae.

Irenina.

3101. 4220 . . . . . AUCUBAE No. 38.

Meliola.

2111. 6232 . . . . . NIDULANS No. 7.
2111. 4232 . . . . . GANGLIFERA No. 10.
3111. 2223, S. obtuse . . . . . ALANGII No. 309.
3111 . . . . . amphitricha Exc.

On Alangium, Aucuba, Cornus, Curtisia, Garrya.

233. On Ericaceae.

Irenina.

2101. 5240 . . . . . ANDROMEDAE No. 1.
2101. 5230 . . . . . EXILIS No. 8.

Meliola.

2111. 6232, on Cornaceae . . . nidulans No. 7.
2111. 533- . . . . . NIESSLEANA No. 9.
2111. 4231, on Myrtaceae . . . pulchella No. 11.
3411. 4133 . . . . . VACCINII No. 26.
3411. 5223, on Apocynaceae . . moerenhoutiana No. 33.

Leptomeliola.

4101. 4220 . . . . . CALLOSPERMA No. 2.

On Andromeda, Cavendishia, Gaultheria, Gaylussacia, Rhododendron, Vaccinium.

236. On Myrsinaceae.

Actinodothis.

3100. 6340 . . . . . SUTTONIAE No. 3.

Amazonia.

3101. 4230 . . . . . PEREGRINA No. 5.

Meliolina.

4110. 3121 . . . . . QUERCINOPSIS No. 6.
2140. 6342 . . . . . CLADOTRICHA No. 17.

Irenopsis.

3401. 4220 . . . . . PARATHESICOLA No. 12.
3401. 5320 . . . . . ARMATA No. 25.

Irenina.

3101. 6420, on Magnoliaceae . . crustacea No. 96.

Meliola.

3113. 4222 . . . . . GROTEANA No. 214.

3112. 4233, s. acute . . . . . TRANSVAALENSIS No. 251a.

3111. 5223, S. obtuse . . . . . MYRSINACEARUM No. 358.

3111. 5223, S. acute . . . . . ARDISIAE No. 410.

3111. 4221, S. acute . . . . . DELICATULA No. 411.

3111. 5221, on Santalaceae, S. acute polytricha No. 430.

On Ardisia, Maesa, Myrsine, Parathesis, Suttonia, Myrsinaceae indet.

239. On Sapotaceae.

Meliola.

3113. 3213 . . . . . SIDEROXYLI No. 207.

3111. 4223, S. obtuse . . . . . LUCUMAE No. 356.

3111. 3221, on Bignoniaceae,

S. acute . . . . . brasiliensis No. 414.

3111. 4222, S. acute . . . . . DIPHOLIDIS No. 436.

3111. 3222, on Lauraceae, S. acute ocoteicola No. 465.

On Chrysophyllum, Dipholis, Lucuma, Sideroxylon.

240. On Ebenaceae.

Meliola.

3112. 5223 . . . . . DIOSPYRI No. 252.

3111. 6333 . . . . . MEGALOCARPA No. 355.

On Diospyros, Maba.

241. On Styraceae.

Irenina.

3101. 5330, on unknown host . tomentosa No. 68.

3101. 4240 . . . . . ABERRANS No. 69.

Meliola.

3112. 3212 . . . . . STYRACEARUM No. 249.

3111. 5341, S. obtuse . . . . . STYRACICOLA No. 280.

On Styrax.

242. On Symplocaceae.

Meliola.

3111. . . . . amphitricha Exc.

On Symplocus.

243. On Oleaceae.

Irenina.

3101. 5340, on Celastraceae . . ditricha No. 88.

Meliola.

3121. 4231 . . . . . PETIOLARIS No. 194.

3113. 4322 . . . . . OSMANTHI No. 225.

3112. 5233 . . . . . GEMELLIPODA No. 248.

3111. 3221, S. obtuse . . . . . MAYEPEAE No. 323.

3111. 3221, S. obtuse . . . . . MAYEPEICOLA No. 349.
3111. 3233, S. obtuse . . . . . JASMINICOLA No. 361.
3111. 4221, S. obtuse or acute . TAYABENSIS No. 395.
3111. 3211, S. acute . . . . . LINOCIERAE No. 443.
3111. 4331, S. acute . . . . . OLEICOLA No. 444.
3111. . . . . amphitricha Exc.

On Jasminum, Linociera, Mayepea, Olea, Osmanthus.

245. On Loganiaceae.

Amazonia.

3101. 3240, on Piperaceae . . . asterinoides No. 7.

Irene.

3201. 5220, on Compositae . . . sororcula No. 8.
3201. 3230 . . . . . INERMIS No. 25.

Irenina.

3101. 3120 . . . . . BUDDLEYICOLA No. 40.
3101. 3220, on Bignoniaceae . . arachnoidea No. 45.
3101. 4320, on Melastomataceae heudelotii No. 59.
3101. 5330 . . . . . IMPLICATA No. 79.
3101. 4240 . . . . . OBDUCENS No. 92.

Meliola.

3131. 4223 . . . . . EVANIDA No. 114.
3111. 2121, on Labiatae, S. obtuse microspora No. 292.
3111. 4221, S. obtuse . . . . . STRYCHNICOLA No. 327.
3111. 4332, S. acute . . . . . FAGRAEAE No. 457.
3111. 4222, on Piperaceae . . . stenospora No. 477.

On Buddleya, Chilianthus, Fagraea, Labordea, Mitra, Nuxia, Spigelia, Strychnos.

246. On Gentianaceae.

Meliola.

3111. 2121, S. obtuse . . . . . LISIANTHI No. 273.

On Chelonanthus, Lisianthus.

247. On Apocynaceae.

Amazonia.

3101. 3240, on Piperaceae . . . asterinoides No. 7.
3101. 4220 . . . . . GONIOMAE No. 8.

Irene.

3201. 5220, on Compositae . . . sororcula No. 8.

Irenina.

3102. 4230 . . . . . ASPIDOSPERMATIS No. 20.
3101. 4230 . . . . . STROPHANTHI No. 61.
3101. 3220 . . . . . ESCHAROIDES No. 62.

Meliola.

3441. 4224 . . . . . WILLOUGHBYAE No. 18.
3411. 5233 . . . . . MOERENHOUTIANA No. 33

3141. 3221 . . . . . GUAMENSIS No. 69.
3133. 4221, on Leguminosae . . bicornis No. 78.
3123. 3222 . . . . . WARDII No. 183.
3121. 2231 . . . . . DEPRESSULA No. 187.
31½1. 4232 . . . . . INTERMEDIA No. 201.
3113. 3223 . . . . . ISOTHEA No. 206.
3113. 3222 . . . . . MODESTA No. 213.
3113. 4222 . . . . . LAEVIPODA No. 221.
3111. 2121, on Labiatae, S. obtuse microspora No. 292.
3111. 2221, S. obtuse . . . . . SIMILLIMA No. 297.
3111. 3222, S. obtuse . . . . . MANDEVILLAE No. 298.
3111. 4221, S. obtuse . . . . . TABERNAEMONTANAE No. 342.
3111. 4221,
S. obtuse TABERNAEMONTANAE var. FORSTERONIAE No. 343.
3111. 3221, S. obtuse . . . . . EUOPLA No. 344.
3111. 4223, S. obtuse . . . . . CARISSAE No. 381.
3111. 4222, S. acute . . . . . FUNTUMIAE No. 423.
3111. 3213, S. acute . . . . . BEEBEI No. 424.
3111. 3223, S. acute . . . . . AMBOINENSIS No. 425.
3111. 3222, S. acute . . . . . TRACHELOSPERMAE No. 439.
3111. 3221, S. acute . . . . . ALSTONIAE No. 451.
3111. 4222, S. acute . . . . . LAEVIGATA No. 478.
3111 . . . . . amphitricha Exc.

Meliolinopsis.

3411. 4231 . . . . . CLAVATISPORA No. 8.

On Aganosma, Alstonia, Alyxia, Aspidosperma, Carissa, Echites, Forsteronia, Gonioma, Funtumia, Holarrhena, Malouetia, Mandevilla, Ochrosia, Oncinotis, Paralstonia, Plumiera, Rauwolfia, Rhabdadenia, Strophanthus, Tabernaemontana, Thevetia, Trachelospermum, Urceola, Willoughbya, Wrightia, Genera indet.

248. On Asclepiadaceae.

Irenopsis.

3301. 3210, on Euphorbiaceae . crotonis No. 42.

Meliola.

3131. 4221, on Bignoniaceae . . bidentata No. 116.
3131. 4233 . . . . . ODONTOCHAETA No. 134.
31⅓1. 4211 . . . . . HOYAE No. 155.
3113. 2221 . . . . . TELOSMAE No. 230.
3111. 2222, S. acute . . . . . PERPUSILLA No. 445.
3111. 3222, S. acute . . PERPUSILLA var. CONGOENSIS No. 446.

On Dischidia, Gonolobus, Hoya, Telosma, Tylophora.

249. On Convolvulaceae.

Meliola.

3143. 3221 . . . . . PERMIXTA No. 38.

3143. 3221 . . . . . PALLIDA No. 41.
3141. 3221, on unknown host . forbesii No. 50.
3141. 3231 . . . . . QUADRISPINA No. 57.
3113. 6231 . . . . . FRANCEVILLEANA No. 236.
3112. 3221, on Verbenaceae . . cookeana No. 240.
3112. 3231 . . . . . MALACOTRICHA No. 243.
3111. 3221, S. obtuse . . . . . CLAVULATA No. 276.
3111. 3222, S. obtuse . . . CLAVULATA var. BATATAE No. 277.
3111. 2231, S. obtuse . . . . . CAYMANENSIS No. 289.
3111. 2121, on Labiatae, S. obtuse . microspora No. 292.
3111. 4242, S. obtuse . . . . . AMBIGUA var. MAJOR No. 326.
3111. 3242, on Labiatae S. obtuse . ambigua No. 348.
3111. 3221, S. acute . . . . . IPOMOEICOLA No. 419.
3111. 5222, S. acute . . . . . DECIDUA No. 420.

On Breweria, Dichondra, Evolvulus, Hewittia, Ipomoea, Merremia, Pharbitis, Genera indet.

252. On Borraginaceae.

Irenopsis.

3401. 4220, on Malvaceae . . . molleriana No. 30.

Irenina.

3101. 5330 . . . . . LONGIPODA No. 58.
3101. 4230, on Rubiaceae . . . glabra No. 66.

Meliola.

3112. 3221, on Saxifragaceae . cylindrophora No. 267.
3111. 6332, on Compositae S. obtuse . . . . . spegazziniana No. 321.
3111. 4223, on Piperaceae S. acute . . . . . stenospora No. 477.

On Cordia, Ehretia, Tournefortia, Varronia, Genera indet.

253. On Verbenaceae.

Irenopsis.

3401. 4330, on Tiliaceae . . . . coronata No. 15.
3401. 3220 . . . . . ACICULOSA var. VITICIS No. 33.

Irenina.

3103. 5220 . . . . . SEPULTA No. 13.
3101. 5330, on Borraginaceae . longipoda No. 58.
3101. 4320, on Melastomataceae . heudeloti No. 59.
3101. 4230, on Rubiaceae . . . glabra No. 66.
3101. 3220, on Piperaceae . . . glabroides No. 72.
3101. 3220 . . . . . VILIS No. 98.

Meliola.

3133. 3242 . . . . . CAMPYLOPODA No. 89.
31$\frac{1}{2}$1. 2211 . . . . . AEGIPHILAE No. 160.
3121. 223 . . . . . LIPPIAE No. 200.

3113. 3222 . . . . . CALLICARPAE No. 208.
3112. 3221 . . . . . COOKEANA No. 240.
3112. 3221, on Saxifragaceae . . cylindrophora No. 267.
3111. 2121, on Labiatae S. obtuse . microspora No. 292.
3111. 3221, S. obtuse . . . . . CLERODENDRICOLA No. 312.
3111. 2221, S. obtuse . . . . . MICROMERA No. 313.
3111. 3221, S. obtuse . . . . . SAKAWENSIS No. 314.
3111. 3221, S. obtuse . . . . . RIZALENSIS No. 319.
3111. 2221, S. obtuse . . . . . PARAENSIS No. 325.
3111. 3242, on Labiatae, S. obtuse . ambigua No. 348.
3111. 4232, S. acute . . . . . DURANTAE No. 463.
3111. . . . . amphitricha Exc.

On Aegiphila, Avicennia, Callicarpa, Citharexylum, Clerodendron, Duranta, Gmelina, Lantana, Lippia, Premna, Stachytarpheta, Valerianodes, Verbena, Vitex, Genera indet.

254. On Labiatae.

Amazonia.

3101. 3240, on Piperaceae . . . asterinoides No. 7.

Irene.

3201. 3230, on Loganiaceae . . inermis No. 25.

Irenina.

3101. 3220 . . . . . HYPTIDICOLA No. 41.
3101. 3220 . . . . . HYPTIDICOLA var. WOMBALENSIS No. 42.
3101. 3220 . . . . . ANASTOMOSANS No. 43.
3101. 3220, on Bignoniaceae . . arachnoidea No. 45.

Meliola.

3111. 2121, S. obtuse . . . . . MICROSPORA No. 292.
3111. 3221, on Rubiaceae, S. obtuse . . . . . psychotriae No. 302.
3111. 3242, S. obtuse . . . . . AMBIGUA No. 348.
3111. 4222, on Combretaceae, S. acute . . . . . pelliculosa No. 459.

On Bradburia, Coleus, Hyptis, Plectranthus, Genera indet.

256. On Solanaceae.

Irene.

3201. 5240 . . . . . WINTERI No. 19.
3201. 5240 . . . . . WINTERI var. HYPHOPODIIGERA No. 20.
3201. 4230 . . . . . ADELPHICA No. 21.
3201. 3230, on Loganiaceae . . inermis No. 25.

Irenopsis.

3402. 3220 . . . . . SOLANI No. 37.

Irenina.

3101. 4220 . . . . . PLEBEJA No. 28.
3101. 4220 . . . . . PLEBEJA var. ASPERRIMA No. 29.

3101. 4230 . . . . . LAETA No. 30.
3101. 3220 . . . . . SOLANICOLA No. 31.
3101. 3220 . . . . . PORTORICENSIS No. 32.
3101. 4230, on Rubiaceae . . . glabra No. 66
3101. 3220, on Piperaceae . . . glabroides No. 72.

Meliola.

3143. 5221 . . . . . DICRANOCHAETA No. 43
3133. 4221, on Leguminosae . . bicornis No. 78.
3132. 4221 . . . . . WISMARENSIS No. 93.
3132. 3221 . . . . . FUSCIDULA No. 94.
3131. 3221 . . . . . SOLANICOLA No. 108.
$31\frac{1}{3}$1. 5333 . . . . . CESTRICOLA No. 180.
3112. 3221, on Verbenaceae . . cookeana No. 240.
3112. 3231, on Convolvulaceae . malacotricha No. 243.
3111. 3211, S. obtuse . . . . . KARTABOENSIS No. 316.
3111. 5233, S. obtuse . . . . . CESTRI No. 352.
3111. 4222, on Gesneriaceae, S. acute . . . . . gesneriae No. 426.
3111. 5221, on Santalaceae, S. acute . . . . . polytricha No. 430.
3111. 4221, S. acute . . . . . CAPSICOLA No. 495.
3111 . . . . . amphitricha Exc

On Acnistus, Capsicum, Cestrum, "Nepanthis"(?) Physalis, Solanum.

257. On Scrophulariaceae.

Irene.

3201. 3220 . . . . . PEGLERAE No. 18.

Irenina.

3101. 4230, on Rubiaceae . . . glabra No. 66.

Meliola.

3112. 3221, on Verbenaceae . . cookeana No. 240.
3111. 2121, on Labiatae . . . . microspora No. 292.

On Anastrabe, Halleria.

258. On Bignoniaceae.

Irenopsis.

3401. 5320, on Myrsinaceae . . armata No. 25.
3301. 5230, on Piperaceae . . . tortuosa No. 39.
$3\frac{1}{3}$01. 3210 . . . . . BIGNONIACEARUM No. 45.

Irenina.

3101. 4220, on Solanaceae . . . plebeja No. 28.
3101. 3220 . . . . . ARACHNOIDEA No. 45.
3101. 3220 . . . . . GLABROIDES var. SCHLEGELIAE No. 73.

Meliola.

3141. 4221 . . . . . TUMOR No. 49.
3141. 3221 . . . . . LUNDIAE No. 51.

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| 3141. 4231, on Palmae . . . . | furcata | No. 65. |
| 3132. 4231 . . . . . | HARIOTI | No. 96. |
| 3131. 3221 . . . . . | CYDISTAE | No. 102. |
| 3131. 2221 . . . . . | DENTIFERA | No. 103. |
| 3131. 4222, on Piperaceae . . . | patouillardi | No. 109. |
| 3131. 3222 . . . . . | BIGNONIACEARUM | No. 115. |
| 3131. 4221 . . . . . | BIDENTATA | No. 116. |
| 3121. 4221 . . . . . | TECOMAE | No. 188. |
| 3111. 2121, S. obtuse . . . . . | CRESCENTIAE | No. 275. |
| 3111. 3221, S. obtuse . . . . . | GNATHONELLA | No. 287. |
| 3111. 3221, S. obtuse . . . . . | SHROPSHIRIANA | No. 288. |
| 3111. 2121, on Labiatae, S. obtuse . | microspora | No. 292. |
| 3111. 3242, on Labiatae, S. obtuse . | ambigua | No. 348. |
| 3111. 2221, S. obtuse . . . . . | PERUVIANA | No. 353. |
| 3111. 2111, S. obtuse . | PERUVIANA var. IRREGULARIS | No. 354. |
| 3111. 4221, on Myrsinaceae, S. acute | delicatula | No. 411. |
| 3111. 3221, S. acute . . . . . | BRASILIENSIS | No. 413. |
| 3111. 4232, S. acute . . . . . | LANCEOLATO-SETOSA | No. 428. |
| 3111. . . . . | amphitricha Exc. | |

On Adenocalymma, Amphilophium, Arrabidaea, Bignonia, Crescentia, Cydista, Heterophragma, Jacaranda, Lundia, Macrodiscus, Markhamia, Phryganocydia, Schlegelia, Tabebuia, Tecoma, Tanaecium, Bignoniaceae indet.

262. On Gesneriaceae.

Irenina.

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| 3101. 4220 . . . . . | CYRTANDRAE | No. 78. |

Meliola.

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| 3131. 4221, on Bignoniaceae . . | bidentata | No. 116. |
| 3111. 2121, S. obtuse . . . . . | COLUMNEAE | No. 307. |
| 3111. 3221, S. obtuse . . . . . | PUMILA | No. 379. |
| 3111. 4222, S. acute . . . . . | GESNERIAE | No. 426. |

On Besleria, Boea, Columnea, Cyrtandra, Gesneria.

266. On Acanthaceae.

Irenina.

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| 3101. 4220 . . . . . | IRREGULARIS | No. 37. |

Meliola.

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| 3111. 3221, on Rubiaceae, S. obtuse . | psychotriae | No. 302. |

On Barleria, Hygrophila, Isoglossa.

269. On Plantaginaceae.

Meliola.

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| 3111. 5221, on Santalaceae, S. acute . . . . . | polytricha | No. 430. |

On Plantago.

270. On Rubiaceae.

Amazonia.
3101. 3240, on Piperaceae . . . asterinoides No. 7.
Irene.
2201. 4220, on Rosaceae . . . . calostroma No. 7.
Irenopsis.
3401. 4220 . . . . . CHIOCOCCAE No. 7.
3401. 4330, on Tiliaceae . . . . coronata No. 15.
3401. 2120 . . . . . BAYAMONENSIS No. 24.
Irenina.
2101. 4220, on Myricaceae . . . manca No. 6.
3102. 2220 . . . . . UNCARIAE No. 19.
3101. 4220, on Solanaceae . . . plebeja No. 28.
3101. 32-0 . . . . . PENICILLIFORMIS No. 39.
3101. 3220 . . . . . ISERTIAE No. 64.
3101. 4230 . . . . . GLABRA No. 66.
3101. 3220 . . . . . SEMINATA No. 95.
Meliola.
3411. 5123 . . . . . MAYAGUEZIANA No. 28.
3411. 3223 . . . . . KADUAE No. 34.
3142. 4232, on Santalaceae . . bifida No. 45.
3132. 4221 . . . . . KAUAIENSIS No. 95.
3131. 2221 . . . . . DUGGENAE No. 122.
31$\frac{1}{3}$1. 2221 . . . . . DUGGENAE var. PANAMENSIS No. 123.
31$\frac{1}{3}$1. 2221 . . . . . ANCEPS No. 147.
31$\frac{1}{3}$1. 3221 . . . . . ANCEPS var. MUSSAENDAE No. 148.
31$\frac{1}{3}$1. 3221 . . . . . MAKILINGIANA No. 149.
31$\frac{1}{3}$1. 4232, on Apocynaceae . . intermedia No. 201.
3112. 3222 . . . . . SANDWICENSIS No. 257.
3111. 2121, on Labiatae, S. obtuse . microspora No. 292.
3111. 3121, S. obtuse . . . . . OUROUPARIAE No. 301.
3111. 3221, S. obtuse . . . . . PSYCHOTRIAE No. 302.
3111, 4121, S. obtuse . . . . . EVEAE No. 303.
3111. 4224, S. obtuse . . . . . MELANEAE No. 304.
3111. 4222, S. obtuse . . . . . VICINA No. 305.
3111. 2111, S. obtuse . . . . . AMPHIGENA No. 306.
3111. 4223, S. obtuse . . . . . LONGISETA No. 367.
3111. 4222, S. obtuse . . . . . ALIBERTIAE No. 368.
3111, 5222 . . . . . WOODIANA No. 371.
3111. 4222, on Lauraceae, S. acute . zig-zag No. 412.
3111. 3221, S. acute . . . . . MITCHELLAE No. 440.
3111. 4222, S. acute . . . . . MITRAGYNES No. 456.
3111. 3223, S. acute . . . . . IXORAE No. 470.
3111. 3221, S. acute . . . . . PALAWANENSIS No. 480.
3111. . . . . amphitricha Exc.

On Alibertia, Borreria, Canthium, Cephaelis, Chiococca, Coccocypselum, Coprosma, Duggena, Erithalis, Evea, Galopina, Gardenia, Genipa, Gonzalagunia, Gouldia, Grumilea, Guettarda, Hamelia, Isertia, Ixora, Kadua, Lerchea, Malanea, Mitchella, Mitragyne, Mitriostigma, Morinda, Mussaenda, Ourouparia (Uncaria), Palicourea, Pavetta, Plectronia, Posoqueria, Psychotria, Randia, Rondeletia, Sabicea, Straussia, Timonius, Webera, Genera indet.

271. On Caprifoliaceae.

Irenina.

3101. 4230 . . . . . VIBURNI No. 48

Meliola.

3111. . . . . amphitricha Exc.

On Viburnum.

275. On Cucurbitaceae.

Irenopsis.

3401. 3220 . . . . . ACICULOSA No. 32.
3401. 4230 . . . . . ZEHNERIAE No. 23a.

Irenina.

3101. 3220 . . . . . NIGRA No. 70.
3101. 4220 . . . . . ANGUIRIAE No. 74.
3101. 3120 . . . . . CONFRAGOSA No. 80.
3101. 4230 . . . . . TRILOBA No. 93.

Meliola.

3141. 4221 . . . . . CUCURBITACEARUM No. 70.
3112. 3231, on Convolvulaceae . malacotricha No. 243.
3112. 4222 . . . . . MALACOTRICHA var. MAJOR No. 244.

On Anguria, Cayaponia, Cucurbita, Luffa, Trichosanthes, Zehneria, Cucurbitaceae, ind.

276. On Campanulaceae.

Amazonia.

3101. 3240, on Piperaceae . . . asterinoides No. 7.

Irene.

3201. 4220, on Euphorbiaceae . . larviformis No. 11.
3201. 5220, on Compositae . . . sororcula No. 8.

Meliola.

3412. 4221 . . . . . LOBELIAE No. 25.

On Clermontia, Lobelia, Genera indet.

277. On Goodeniaceae.

Amazonia.

3101. 3240, on Piperaceae . . . asterinoides No. 7.

Irenopsis.

3402. 4230 . . . . . SCAEVOLICOLA No. 4.

Meliola.

3111. 3222, S. obtuso . . . . . SCAEVOLAE No. 286.

On Scaevola.

280. On Compositae.

Amazonia.

3101. 3240, on Piperaceae . . . asterinoides No. 7.

Irene.

3201. 5220 . . . . . SORORCULA No. 8.

3201. 3220 . . . . . SORORCULA var. VERNONIAE No. 9.

3201. 4220 . . . . . SORORCULA var. PORTORICENSIS No. 10.

3201. 3230, on Loganiaceae . . . inermis No. 25.

Irenopsis.

3402. 3220 . . . . . CONFERTA No. 5.

3301. 5220, on Piperaceae . . . tortuosa No. 39.

Irenina.

2101. 4220 . . . . . ABNORMIS No. 2.

3101. 3220 . . . . . CYCLOPODA No. 23.

3101. 4230, on Rubiaceae . . . . glabra No. 66.

Meliola.

3141. 4331 . . . . . MIKANIAE No. 52.

3112. 3231, on Convolvulaceae . malacotricha No. 243.

3111. 6332, S. obtuse . . . . . SPEGAZZINIANA No. 321.

3111. 3213, S. obtuse or acute . ANGUSTISPORA No. 394.

3111. 3221, S. acute . . . . . BONINENSIS No. 479.

3111 . . . . . amphitricha Exc.

On Baccharis, Bidens, Calea, Calendula, Chuquiragua, Elephantopus, Eupatorium, Liabum, Mikania, Moquinia, Osmia, Pseudelephantopus, Rhacoma, Leuzea, Schistocarpha, Senecio, Synanthera, Vernonia, Willughbya, Compositae indet.

281. On Pteridophytes.

Irene.

3301. 5220, on Piperaceae . . . tortuosa No. 39.

Moliola.

3121. 3121 . . . . . CORNUTA No. 189.

3111. 3221, S. obtuse . . . . . PTERIDICOLA No. 334.

On Adiantum, Aneimia, Dicksonia, Lygodium.

292. Fungi.

Meliolina.

4100. 41-0 . . . . . PAULLINIAE No. 1.

4100. 4230 . . . . . IRENICOLA No. 2.

2100. 4230 . . . . . MELIOLAE No. 4.

2110. 3121 . . . . . IQUITOSENSIS No. 19.

On Meliola, Irene.

## Species with the Type on hosts of unknown Genus or Family.

Meliolina fuscopulveracea No. 5, 2100. 2110.
Meliolina orbicularis No. 9, 31½0. 6243.

Irene natalensis No. 1, 2203. 4220.
Irene rimbachi No. 13, 320?. 4230.
Irene tuberculata No. 24, 3201. 3230.
Irene inermis var. macilenta No. 26, 3201. 3230.
Irene echinata No. 27, 3201. 5220.

Irenopsis guignardi No. 1, 2401. 6340.
Irenopsis curvata No. 27, 3401. 4220.

Irenina boni No. 7, 2101. 5320.
Irenina ampullifera No. 14, 3103. 5330.
Irenina conglomerata No. 33, 3101. 4230.
Irenina tomentosa No. 68, 3101. 5330.

Meliola wainioi No. 2, 2121. 6342.
Meliola guaranitica No. 13, 2111. 4233.
Meliola lanosa No. 14, 2111. 6341.
Meliola mattogrossensis No. 20, 34⅓3. 3222.
Meliola pennata No. 35, 3411. 5323.
Meliola heterodonta No. 76, 31¾1. 3223.
Meliola monilispora No. 117, 3131. 5221.
Meliola andina No. 131, 3131. 3231.
Meliola megalopoda No. 196, 3121. 5343.
Meliola balansae No. 202, 31½1. 6332.
Meliola ludibunda No. 220, 3113. 4232.
Meliola rehmii No. 223. 3113. 2222.
Meliola leopoldina No. 259, 3112. 6342.
Meliola leptopus No. 262, 3112. 5232.
Meliola acamptinga No. 263, 3112. 4234.
Meliola nicaraguensis No. 265, 3112. 3221.
Meliola formosa No. 272, 3112. 1---.
Meliola samarensis No. 282, 3111. 4233.
Meliola mitchellae var. orthopus No. 365, 3111. 4221.
Meliola woodiana No. 371, 3111. 5222.
Meliola aliena No. 389, 3111. 4221.
Meliola leptospora No. 413, 3111. 5222.
Meliola effusa No. 421, 3111. 5223.
Meliola thollonis No. 438, 3111. 6332.
Meliola cylindripoda No. 462, 3111. 4232.
Meliola acanthopoda No. 496, 3111. 4231.

## List of host genera with the families to which they belong indicated.

Abies-Pina
Abutilon-Malvac
Acacia-Leg
Acaena-Rosa
Acalypha-Euphorb
Achatocarpus-Phytolacc
Acnistus-Solan
Acridocarpus-Malpigh
Acrista-Palm
Acrotrema-Dilleni
Adenocalymma-Bignon
Adiantum-Pterid
Aegiphila-Verb
Aganosma-Apocy
Aglaia-Meliac
Agonandra-Opilia
Alangium-Cornac
Alchornea-Euphorb
Alibertia-Rubiac
Allophylus-Sapind
Alocasia-Ara
Alphitonia-Rhamnac
Alsodeia-Violac
Alstonia-Apocy
Alyxia-Apocy
Amerimnum-Leg
Amomis-Myrtac
Amoora-Meliac
Amphilophium-Bignon
Amyris-Rutac
Anacardium-Anacard
Anastrabe-Scrophular
Andira-Leg
Andromeda-Ericac
Andropogon-Gramin
Aneimia-Pterid
Anguria-Cucurbit
Anona-Anona
Anthistiria-Gramin
Antidesma-Euphorb
Apodytes-Icacin
Arabis-Crucifer
Aralia-Araliac
Ardisia-Myrsin
Aristolochia-Aristoloch
Arrabidaea-Bignon
Artanthes-Piper
Artocarpus-Mora
Arundinaria-Gramin
Arundo (Donax) -Gramin
Arytera-Sapind
Aspidosperma-Apocy
Astronium-Anacard
Atalantia-Rutac
Aucuba-Cornac
Aurantiacea-Rutac
Avicennia-Verb

Baccharis-Composit
Bactris-Palm
Balfourodendron-Rutac
Bambusa-Gramin
Banara-Flacourt
Banisteria-Malpigh
Baphia-Leg
Barbacenia-Velloz
Barleria-Acanth
Barosma-Rutac
Barringtonia-Lecythidac
Barteria-Flacourt
Bastardiopsis-Malvac
Baumea-Cyper
Behnia-Lili
Berlinia-Bignon
Besleria-Gesner
Bignonia-Bignon
Bihai-Marant
Boea-Gesner
Boerlagiodendron-Araliac
Boldoa-Monimia
Borreria-Rubi
Boscia-Capparida
Bradburia-Leg
Breweria-Convolvul
Bruguiera-Rhizophor
Brunchosia-Malpigh
Brysonima-Malphigh
Buchanania-Anacard
Buddleya-Logan

Cabralea-Meliac
Cactus-Cactac
Caesalpinia-Leg
Calea-Composit
Calendula-Composit
Callicarpa-Verb
Calophyllum-Guttifer
Calopogonium-Leg
Calathea-Maranta
Canarium-Burser
Canthium-Rubi
Capsicum-Solan
Carica-Caricac
Carissa-Apocy
Carludovica-Cyclant
Casearia-Flacourt
Cassia-Leg
Castela-Simarub
Cavendishia-Ericac
Cayaponia-Cucurbit
Cecropia-Mora
Celastrus-Celast
Celtis-Ulma
Centrosema-Leg
Cephaelis-Rubi
Cestrum-Solan
Chaetochloa-Gramin
Chamaecrista-Leg
Champeria-Santal
Champereia-Opilia
Cheirodendron-Araliac
Chelonanthus-Gentian

Chilianthus-Logan
Chiococca-Rubi
Chiquiragua-Composit
Choristylis-Saxi
Chloris-Gramin
Chrysophyllum-Sapot
Chusquea-Gramin
Cinnamomum-Laur
Cissus-Vitac
Citharexylum-Verben
Citrus-Rutac
Cladium-Cyper
Claoxylon-Euphorb
Clematis-Ranuncul
Clermontia-Campanul
Clerodendron-Verb
Clidemia-Melast
Cliffortia-Rosa
Clitoria-Leg
Clusia-Guttifer
Cluytia-Euph
Coccocypselum-Rubi
Coccoloba-Polygon
Coccothrinax-Palm
Coleus-Labiat
Collaea-Leg
Colliguaja-Euphorb
Colubrina-Rhamnac
Combretum-Combret
Comocladia-Anacard
Connarus-Connar
Conostegia-Melast
Copernicia-Palm
Coprosma-Rubi
Cordia-Borrag
Coriacea-Umbellifer
Cornus-Cornac
Costus-Zingiber
Coussapoa-Mora
Crossopetalum-Celast
Crescentia-Bignon
Croton-Euphorb
Cryptocarya-Laur
Cucurbita-Cucurbit
Cunonia-Cunon
Cupania-Sapind
Curtisia-Cornac
Cussonia-Araliac
Cyperus-Cyper
Cyrtandra-Gesner

Dalbergia-Leg
Daphnopsis-Thymel
Dendropanax-Araliac
Derris-Leg
Desmodium (Meibomia)-Leg
Desmoncus-Palm
Dianella-Lilia
Dichondra-Convolvul
Dicksonia-Pterid
Didymopanax-Araliac
Dieffenbachia-Ara
Dimerocostus-Zingib
Dimorphandra-Leg
Diodia-Leg
Dioscorea-Lilia
Diospyros-Eben
Dipholis-Sapot
Diphysa-Leg
Dischidia-Asclepiad
Dodonaea-Sapind
Dolicholus-Leg
Doliocarpus-Dillen
Donax-Marant
Dovyalis-Flacourt
Dracaena-Lilia
Dracontomelon-Anac
Drymis-Magnolia
Duggena-Rubi
Duranta-Verb
Duvaua-Anac
Dysoxylum-Meliac

Echites-Apocy
Ehretia-Borrag
Elaeis-Palm
Elaeocarpus-Vitac
Elaeodendron-Celast
Elatostema-Urti
Eleocharis-Cyper
Entada-Leg
Erithalis-Rubi
Erythrina-Leg
Eucalyptus-Myrtac
Eugenia-Myrtac
Eupatorium-Composit
Evea-Rubi
Evodia-Rutac
Evolvulus-Convolvul
Excoecaria-Euphorb
Exocarpus-Santal

Fagara-Rutac
Fagraea-Logan
Ficus-Mora
Flindersia-Ruta
Forsteronia-Apocy
Funtumia-Apocy

Gahnia-Cyper
Galactia-Leg
Galipea-Rutac
Galopina-Rubi
Garcinia-Guttifera
Gardenia-Rubi
Garrya-Cornac
Gaultheria-Ericac
Gaylussacia-Eric.
Genipa-Rubi
Geum-Rosa
Gesneria-Gesner
Gleditschia-Leg
Gliricidia-Leg
Glycosmis-Rutac
Gmelina-Verb
Goeppertia-Laur
Gonolobus-Asclepiad
Gonzalagunia-Rubi
Gordonia-Theac
Gouania-Rhamnac
Gouldia-Rubi

Grevillea-Protea
Grumilea-Rubi
Guarania-Euph
Guaiacum-Zygoph
Guarea-Meliac
Guaiacum-Zygophyll
Guatteria-Anona
Guettarda-Rubi
Guioa-Sapind
Gymnanthes-Euphorb
Gymnosporia-Celast

Halleria-Scroph
Hamelia-Rubi
Hancea-Euphorb
Harpophyllum-Anacard
Harpullia-Sapind
Hedera-Araliac
Hedwigia-Burser
Heleocharis-Cyper
Heliconia-Musa
Helicteres-Sterculi
Helietta-Rutac
Heteromeles-Rosa
Hewittia-Convolvul
Hibiscus-Malvac
Hippobromus-Sapind
Hippocratea-Hippocrat
Hippomane-Euphorb
Holocalyx-Leg
Homonoia-Euphorb
Hopea-Dipterocarp
Horsfieldia-Myristic
Hoya-Asclepiad
Hygrophila-Acanth
Hymenaea-Leg
Hypelate-Sapind
Hyptis-Labiat

Ichnanthus-Gramin
Icica-Burser
Ilex-Aquifol
Imperata-Gramin
Indigofera-Leg
Inga-Leg
Inocarpus-Leg
Iodina-Santal
Ipomoea-Convolvul
Isertia-Rubi
Isoglossa-Acanth
Itea-Saxifrag
Ixora-Rubi

Jacaranda-Bignon
Jatropha-Euphorb
Jasminum-Oleac
Justicia-Acanth

Kadua-Rubi
Kibara-Monimia
Knowltonia-Ranunc
Krugiodendron-Rhamnac

Labordea-Logan
Lagenocarpus-Cyperac
Laguncularia-Combret
Lantana-Verb
Lasiacis-Gramin
Leandra-Melast
Lepisanthes-Sapind
Lerchea-Rubi
Leucosidea-Rosa
Leucosyke-Urti
Leuzea (Rhacoma)
-Composit
Liabum-Composit
Linociera-Oleac
Lippia-Verb
Lisianthus-Gentian
Lithraea-Anacard
Litsea-Laur
Livistona Palm
Lobelia-Campanul
Lomatia-Protea
Lonchocarpus-Leg
Loranthus-Loranth
Loxostylis-Anacard
Lucumá-Sapot
Luehea-Tilia
Luffa-Cucurbit
Luhea-Tiliac
Lumnitzera-Combret
Lunasia-Rutac
Lundia-Bign
Lygodium-Pterido

Mabá-Eben
Macaranga-Euphorb
Macrodiscus-Bignon
Maerua-Capparid
Maesa-Myrsin
Magnolia-Magnolia
Malache-Malv
Mallotus-Euphorb
Malpighia-Malpig
Malouetia-Apoc
Malanea-Rubi
Mammea-Guttifer
Mandevillea-Apocy
Mangifera-Anacard
Manihot-Euphorb
Mapania-Cyper
Maranta-Maranta
Marcgravia-Marcgr
Markhamia-Bignon
Mariscus-Cyper
Matayba-Sapind
Mauria-Anacard
Mauritia-Palm
Mayepea-Oleac
Maytenus-Celast
Melaleuca-Myrtac
Melicocca-Sapind
Memecylon-Melast
Merremia-Convolvul
Metrosideros-Myrtac
Miconia-Melast
Mikania-Composit
Millettia-Leg
Mimosa-Leg
Mitchella-Rubi
Mitra-Logan

Mitragyne-Rubi
Mollinedia-Monim
Monnieria-Rutac
Monnina-Polygal
Montrichardia-Arac
Moquinia-Composit
Morinda-Rubi
Moya-Celast
Murraya-Rutac
Mussaenda-Rubi
Myrcia-Myrtac
Myrica-Myrica
Myriocarpa-Urtic
Myroxylon-Flacourt
Myrsine-Myrsin
Mystroxylon-Celast

Nectandra-Laur
"Nepanthis"-Solan?
Nephelium-Sapind
Nuxia-Logan

Ochna-Ochna
Ochrosia-Apocy
Ocotea-Laur
Odina-Anacard
Olea-Oleac
Olmedia-Mora
Olyra-Gramin
Oncinotis-Apocy
Oncoba-Flacourt
Opilia-Opilia
Oplismenus-Gramin
Ormocarpum-Leg
Osmanthus-Oleac
Osyridicarpos-Santal
Osyris-Santal
Otophora-Sapind
Ourouparia (Uncaria) -Rubi

Palicourea-Rubi
Palms-Palm
Panicum-Gramin
Paralstonia-Apocy
Parathesis-Myrsin
Paratropia-Araliac
Paropsia-Passiflor
Paspalum-Gramin
Passiflora-Passiflorac
Paullinia-Sapind
Pavetta-Rubi
Peddiea-Thymel
Pelea-Rutac
Pentaclethra-Leg
Perrottetia-Celast
Persea-Laur
Petiveria-Phytolacc
Phanera-Leg
Pharbitis-Convolvul
Phaseolus-Leg
Philodendron-Ara
Phoebe-Laura
Phoenix-Palm
Photinia-Rosa
Phragmites-Gramin
Phryganocydia-Bignon
Physalis-Solan
Phytolacca-Phytolacc
Picramnia-Simaruba
Pilea-Urti
Pilocarpus-Rutac
Pinus-Pina
Piper-Pipera
Pipturus-Urti
Pisonia-Nyctagin
Pithecolobium-Leg
Pittosporum-Pittospor
Plantago-Plantagin
Plectranthus-Labiat
Plectronia-Rubi
Pleurostylia-Celast
Plumiera-Apocy
Podocarpus-Taxa
Popowia-Anon
Posoqueria-Rubi
Premna-Verb
Protium-Burser
Prunus-Rosa
Pseudelephantopus-Composit
Psidium-Myrtac
Psilostoma-Rubi
Psoralea-Leg
Psychotria-Rubi
Pterocarpus-Leg
Pterospermum-Sterc
Pueraria-Leg
Pygeum-Rosa
Pyrenacantha-Icac

Quercus-Faga

Randia-Rubi
Rauwolfia-Apocy
Ravenala-Musa
Rhabdadenia-Apocy
Rheedia-Guttifer
Rhododendron-Eriacac
Rhoicissus-Vitac
Rhus-Anacard
Rinorea-Viola
Rhynchospora-Cyper
Rollandia-Campanul
Rosa-Rosa
Rottboellia-Gramin
Rourea-Connar
Roystonia-Palm
Rubus-Rosa
Rudolphia-Leg
Rupala-Protea

Sabal-Palm
Sabicea-Rubi
Saccharum-Gramin
Salacia-Hippocratea
Sandoricum-Meliac
Sapindus-Sapind
Saurauia-Dillen
Sauropus-Euphorb
Sauvagesia-Ochnac
Scaevola-Gooden

Scolopia-Flacourt
Schefflera-Araliac
Schima-Thea
Schinus-Anacard
Schistocarpa-Composit
Schizolobium-Leg
Schlegelia-Bignon
Schmidelia-Sapind
Scirpus-Cyper
Scleria-Cyper
Sclerolobium-Leg
Scutia-Rhamnac
Sebastiana-Euphorb
Semecarpus-Anacard
Senecio-Composit
Serenoa-Palm
Serjania-Sapind
Sida-Malvac
Sideroxylon-Sapota
Simaba-Simarub
Simaruba-Simarub
Sloanea-Elaeocarp
Smilax-Lilia
Solanum-Solan
Sorocea-Mora
Spartina-Gramin
Spigelia-Logan
Spondias-Anacard
Stachytarpheta-Verb
Stemona-Stemon
Stenotaphrum-Gramin
Stigmatophyllon-Malpig
Straussia-Rubi
Strophanthus-Apocy
Strychnos-Logani
Styrax-Styrac
Suttonia-Myrsin
Symphonia-Guttifer
Symplocos-Symploc
Synanthera-Comp
Syzygium-Myrtac

Tabebuia-Bignon
Tabernaemontana-Apocy
Talauma-Magnolia
Tamarindus-Leg
Tanaecium-Bignon
Tapirira-Anacard
Taxus-Taxa
Tecoma-Bignon
Telosma-Asclepiad
Tephrosia-Leg
Teramnus-Leg
Terebinthe-Anac
Terminalia-Combret
Tetradenia-Sterculiac
Tetragastris-Burser
Thalia-Marant
Tetrastigma-Vitac
Theobroma-Sterculia
Thevetia-Apocy
Thouinia-Sapind
Thrinax-Palm
Timonius-Rubi
Toddalia-Rutac
Tounatea-Leg
Tournefortia-Borrag
Trachelospermum-Apocy
Trema-Urti
Trichosanthes-Cucurbit
Trichilia-Meliac
Trichocladus-Hamamelid
Trigonachras-Sapind
Trigonia-Trigon
Triumfetta-Tiliac
Turpinia-Staphyl
Tylophora-Asclepiad

Uncaria-Rubi
Urania-Musa
Urceola-Apocy
Urvillea-Sapind
Uvaria-Anona

Vaccinium-Ericac
Valerianodes-Verb
Varronia-Borrag
Vavaea-Meliac
Verbena-Verb
Viburnum-Caprifol
Villaresia-Icacin
Vincentia-Cyper
Viscum-Loranth
Vismia-Guttifer
Vitex-Verb

Webera-Rubi
Wikstroemia-Thymel
Willoughbya-Apocy
Willughbya-Comp
Winterana-Canella
Wormia-Dillen
Wrightia-Apocy

Xylopia-Anona
Xylosma-Flacourt
Xymalos-Monimia

Zanthoxylon (Xanthoxylum) -Rutac
Zehneria-Cucurb
Zollernia-Leg

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197. Canellaceae
47. Cannaceae
107. Capparidaceae
271. Caprifoliaceae
205. Caricaceae
158. Celastraceae
221. Combretaceae
280. Compositae
127. Connaraceae
249. Convolvulaceae
229. Cornaceae
105. Cruciferae
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233. Ericaceae
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62. Fagaceae
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246. Gentianaceae
262. Gesneriaceae
277. Goodeniaceae
19. Gramineae
187. Guttiferae

225. Halorrhagidaceae
123. Hamamelidaceae
159. Hippocrateaceae

162. Icacinaceae

254. Labiatae
102. Lauraceae
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128. Leguminosae
38. Liliaceae
245. Loganiaceae
67. Loranthaceae
216. Lythraceae

95. Magnoliaceae
141. Malpighiaceae
175. Malvaceae
48. Marantaceae
184. Marcgraviaceae
223. Melastomataceae
140. Meliaceae
94. Menispermaceae
101. Monimiaceae
64. Moraceae
45. Musaceae
57. Myricaceae
99. Myristicaceae
236. Myrsinaceae
222. Myrtaceae

80. Nyctaginaceae

182. Ochnaceae
243. Oleaceae
71. Opiliaceae

21. Palmae
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83. Phytolaccaceae
6. Pinaceae
53. Piperaceae
118. Pittosporaceae
269. Plantaginaceae
145. Polygalaceae

77. Polygonaceae
66. Proteaceae

91. Ranunculaceae
169. Rhamnaceae
220. Rhizophoraceae
126. Rosaceae
270. Rubiaceae
137. Rutaceae

69. Santalaceae
165. Sapindaceae
239. Sapotaceae
117. Saxifragaceae
257. Scrophulariaceae
138. Simarubaceae
256. Solanaceae
161. Staphyleaceae
37. Stemonaceae
178. Sterculiaceae
241. Styracaceae
242. Symplocaceae

5. Taxaceae
186. Theaceae
214. Thymelaeaceae
174. Tiliaceae
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63. Ulmaceae
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## Addendum.

**Irenina peddieae** (Doidge) n. comb.
*Irene peddieae* Doidge. Both. 2: 235. 1927.
On Thymelaeaceae: Peddiea.
Type locality: South Africa.

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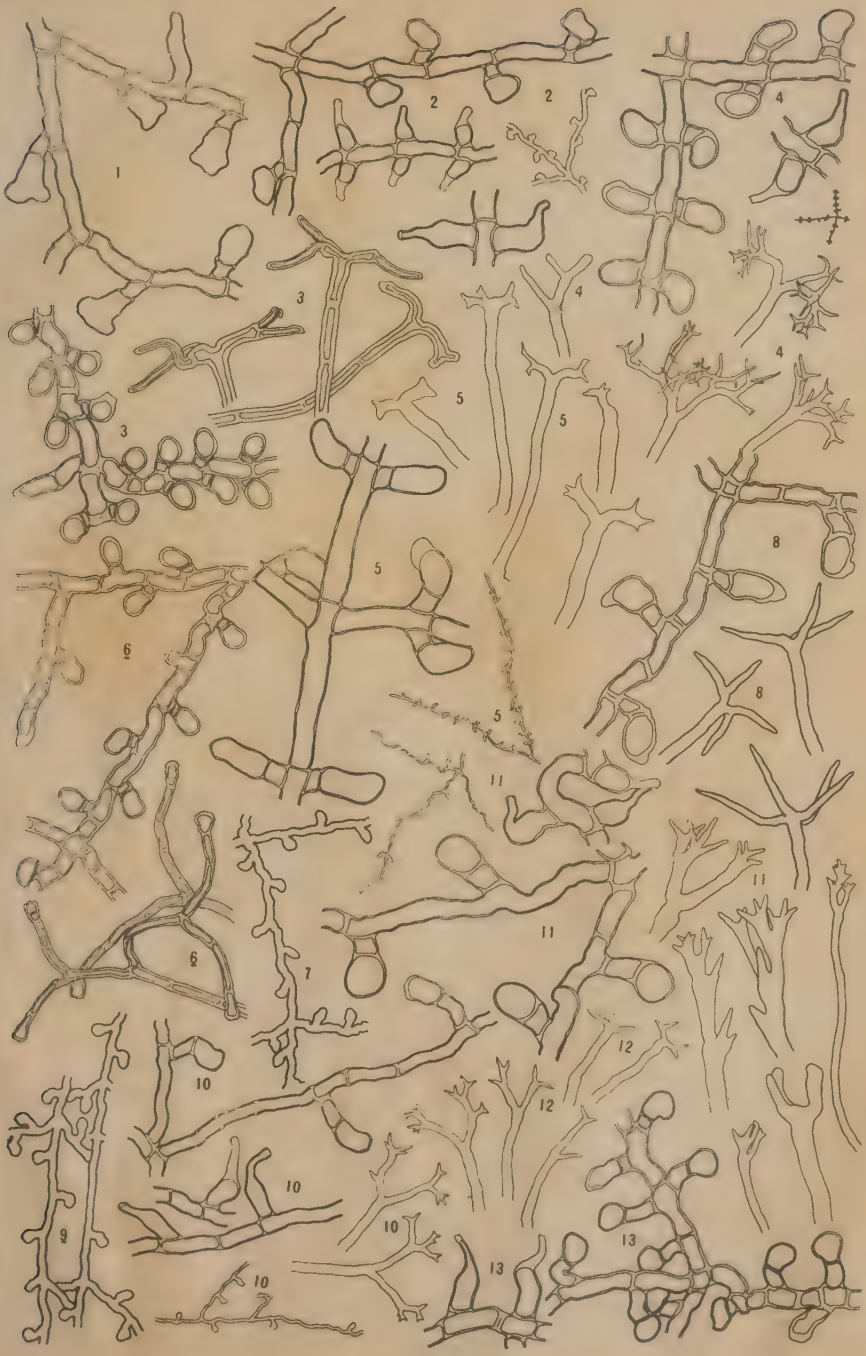

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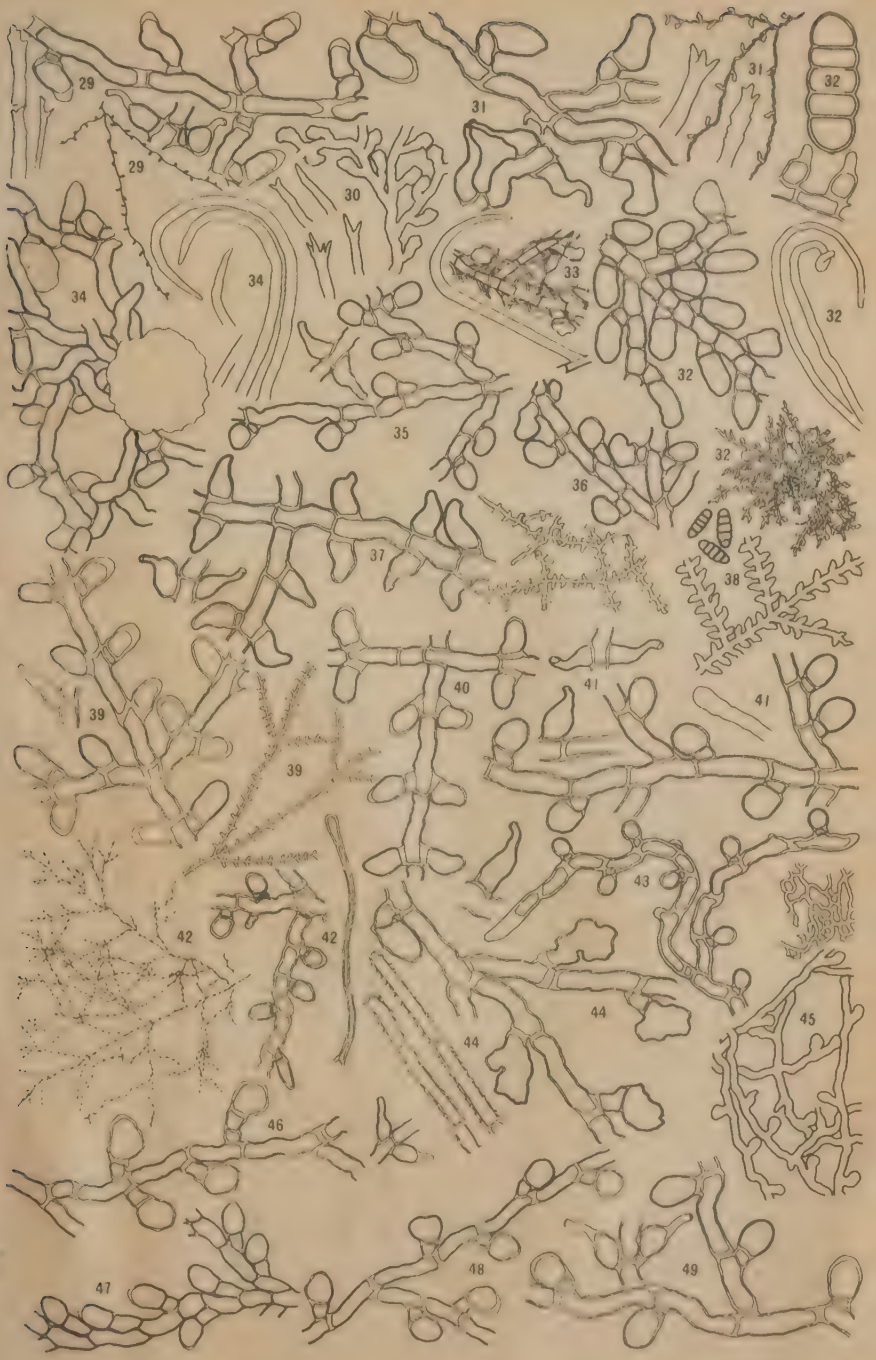


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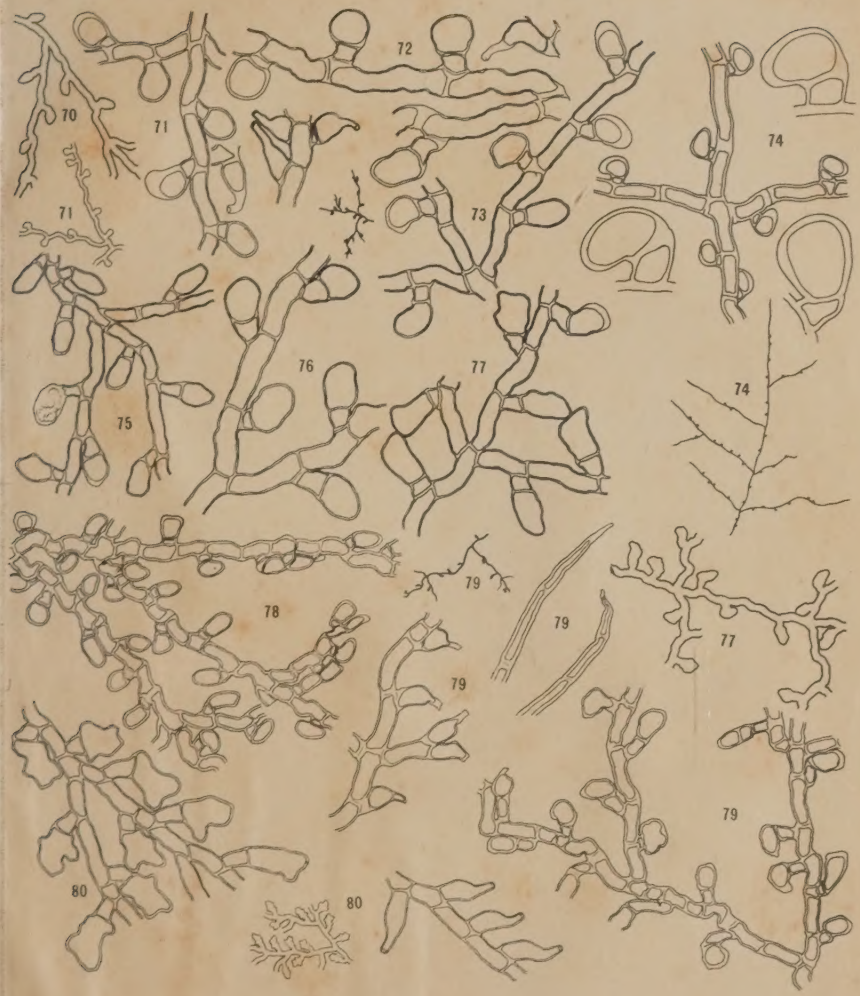


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